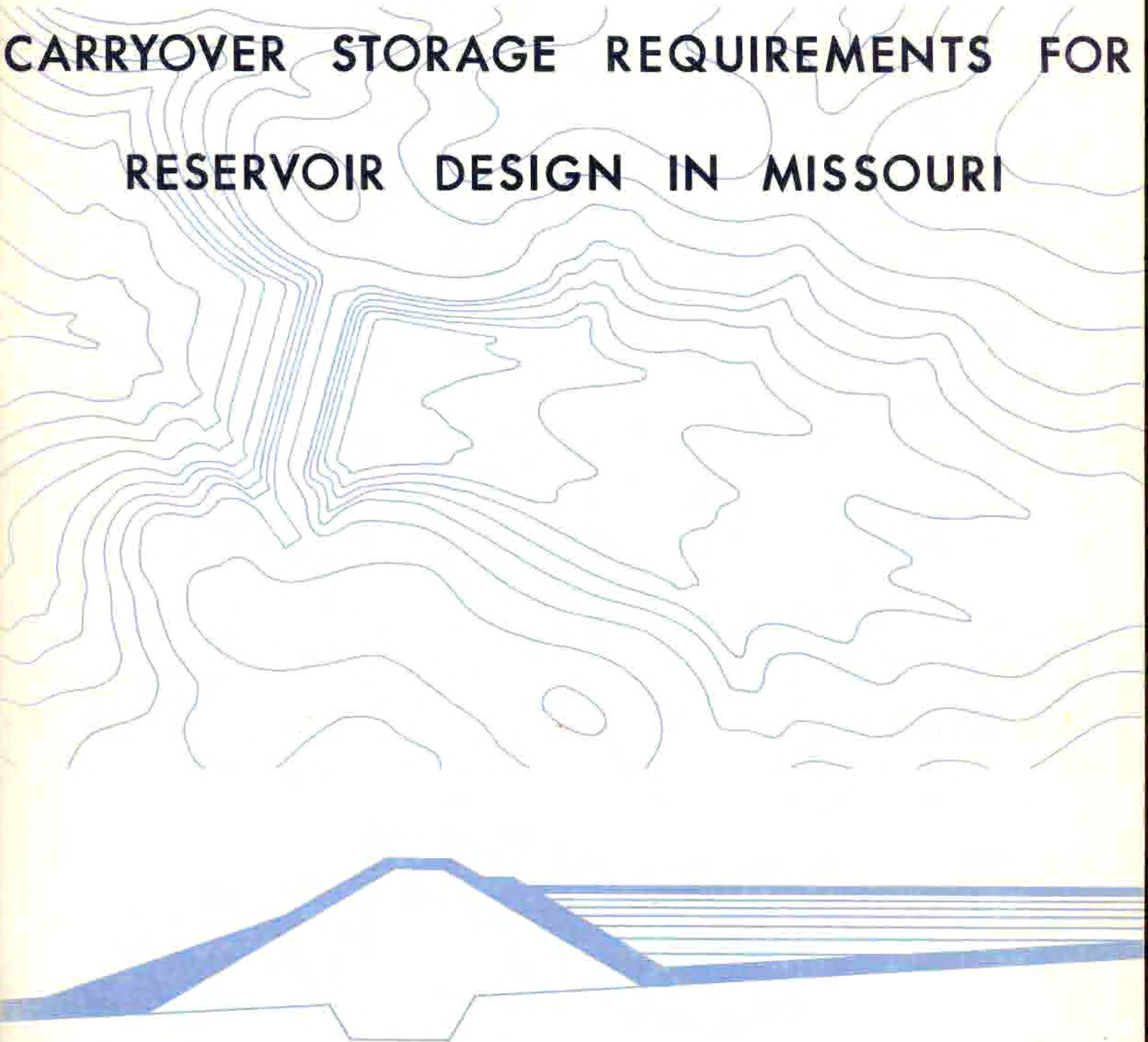
WATER RESOURCES REPORT 27

# CARRYOVER STORAGE REQUIREMENTS FOR RESERVOIR DESIGN IN MISSOURI



by john skelton

# CARRYOVER STORAGE REQUIREMENTS FOR RESERVOIR DESIGN IN MISSOURI

By John Skelton

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PREPARED IN COOPERATION WITH

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES
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Rolla, Mo., August 1971

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# CARRYOVER STORAGE REQUIREMENTS FOR RESERVOIR DESIGN IN MISSOURI

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# ILLUSTRATIONS



Skelton, John, Carryover storage requirements for reservoir design in Missouri: Mo. Geol. Survey and Water Resources, W.R. 27, 60 p., 9 figs., 1 tbl., 1 pl., app., 1971.

# CARRYOVER STORAGE REQUIREMENTS FOR RESERVOIR DESIGN IN MISSOURI

By John Skelton

## ABSTRACT

The carryover storage requirements for draft rates as high as 94 percent of the mean annual flow at 212 continuous and partial-record sites on unregulated Missouri streams are presented in this report. The storage requirements were determined for selected chances of deficiency using the probability routing method and annual stream flows. These data will be useful in preliminary studies of storage structures to be located at or near gaged sites and in comparing development possibilities of different streams.

Regional draft-storage curves for 2-, 5-, and 10-percent chances of deficiency are presented as three-parameter plots of storage against average annual runoff for selected draft rates. These curves can be used to estimate storage requirements at sites where long-time continuous records are not available. Standard errors of estimate for the curves are 20 percent or less.

## INTRODUCTION

Missouri possesses an adequate supply of surface water that is chemically suitable for most uses. In much of the state, however, the seasonal and annual variability of streamflow make it necessary to provide storage reservoirs to insure a dependable year-round supply.

Storage may be classified as within-year or carryover, according to the length of time required for replenishment. A previous report (Skelton, 1968) presented design data for Missouri streams based on the required storage that will be replaced each year. These within-year storage data are useful in the preliminary planning and design of small, multipurpose reservoirs. However, the demand for water is increasing rapidly in Missouri, and it is evident that there is a need for design data based on higher draft rates which require carryover storage.

The purpose of this report is to present (1) processed data from analyses of carryover storage requirements for all streamflow stations that are not affected by regulation, and (2) regional relations for use in estimating storage requirements at ungaged sites.

Draft-storage data presented in this report are useful primarily in making preliminary estimates of potential development and in comparing the development possibilities of different streams. Although the probability-routing analysis which is used is based on the assumption of constant draft rates and independent annual discharges, the results provide a base from which adjustments for other conditions, such as variable draft rates, can be made.

## ACKNOWLEDGMENTS

The information contained in this report is based on data collected by the Water Resources Division of the U.S. Geological Survey in cooperation with State and Federal agencies. The report was prepared in the Missouri district of the Water Resources Division under the direction of Anthony Homyk, district chief, in cooperation with the Missouri Geological Survey and Water Resources, William C. Hayes, State Geologist and Director.

# METHODS OF ANALYSIS

## Storage Requirements from Long-term Records

The records at long-term streamflow stations were analyzed using the mathematical technique of Markov-chain analysis called "probability routing" by Langbein (1958). A description of the method is given by Hardison (1966).

The objective of probability routing is the determination of the frequency distribution of annual reservoir contents. For a given solution, three conditions are set: (1) the observed frequency distribution of annual inflows (that is, annual flows at the gaging station) is approximated by one of three types of probability distributions: normal, log normal, or Weibull. An example of an observed annual flow series and the fitted probability distributions is shown in figure 1; (2) a constant annual draft is selected; and (3) a reservoir capacity is selected. Prior to making the calculations, the inflow, storage, and outflow values are divided into intervals and all quantities are transformed into volume units. Once the above conditions are set, the desired frequency curve of annual reservoir contents is obtained using matrix algebra methods.

Frequency characteristics in this report are expressed as percent chance of deficiency. This probability value is the percent of years in which a storage reservoir of indicated capacity will become empty. It might also be interpreted as the average chance of having an empty reservoir in any year over a long period of years. However, this does not imply that the deficiency is equally probable each year, because a series of dry years will decrease the amount of water stored and increase the chance of deficiency for succeeding years.

Hardison (1966) has obtained the probability corresponding to an empty reservoir for many combinations of inflow characteristics, reservoir storage capacity and annual draft. These results have been summarized in tables relating storage capacity, annual draft, and a variability index for values of 2-, 5-, and 10-percent chance of deficiency. The flow variability index used is the coefficient of variation of annual flows in the case of normal and Weibull distributions and the standard deviation of logs for log-normal distributions. Thus, if the frequency distribution of annual flows is approximated by one of the three probability distributions and the appropriate index of variability is determined, Hardison's tables can be used to obtain carryover storage requirements for selected annual draft rate and chance of deficiency.

Carryover storage requirements are based on the assumption that reservoir inflow is uniform throughout the year. As this is not the case, an additional amount of storage is required to regulate the within-year variation.

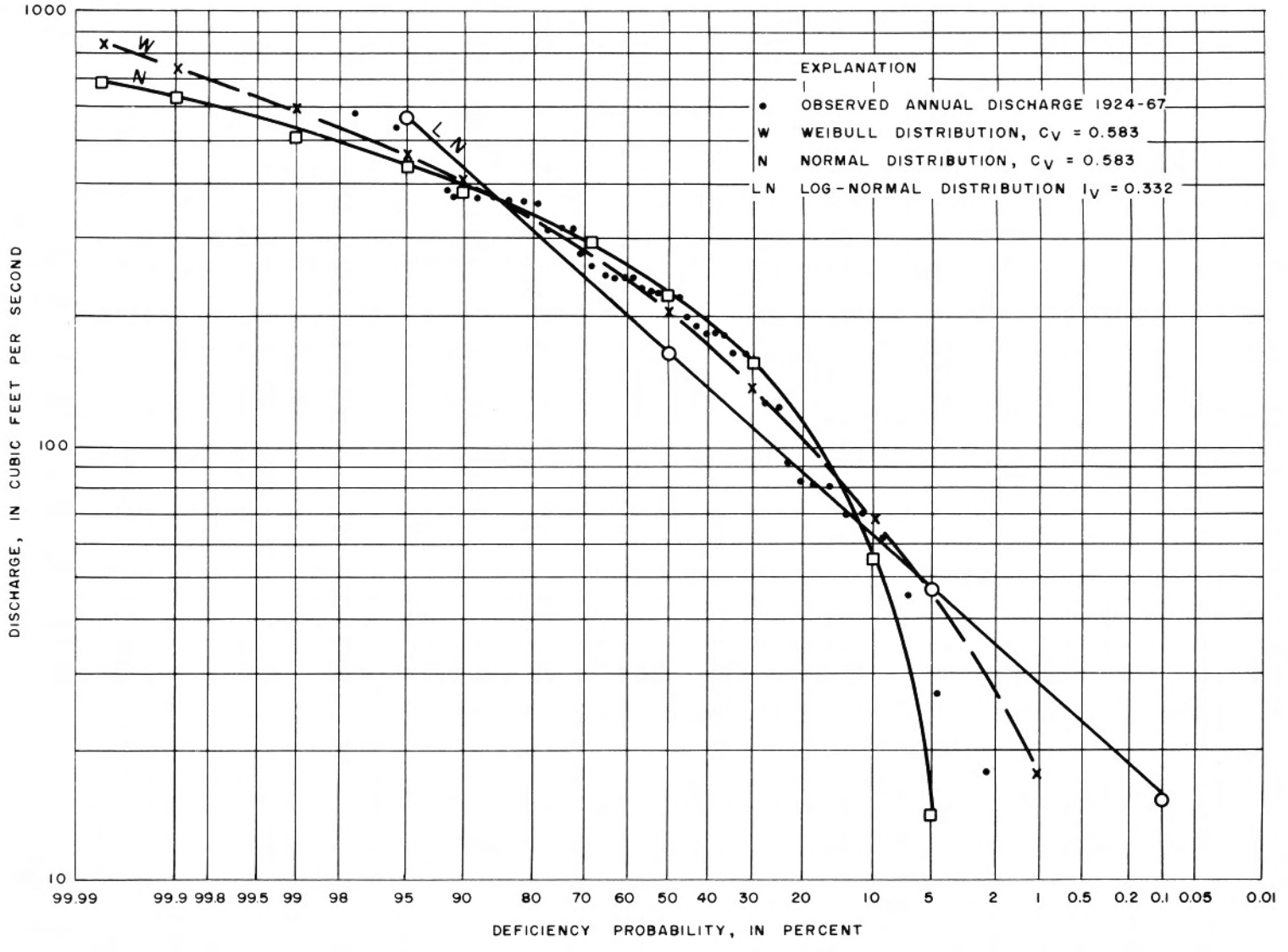


**Figure 1.** Probability distribution of annual discharge, Fox River at Wayland, Mo., showing comparison between three types of distribution curves.

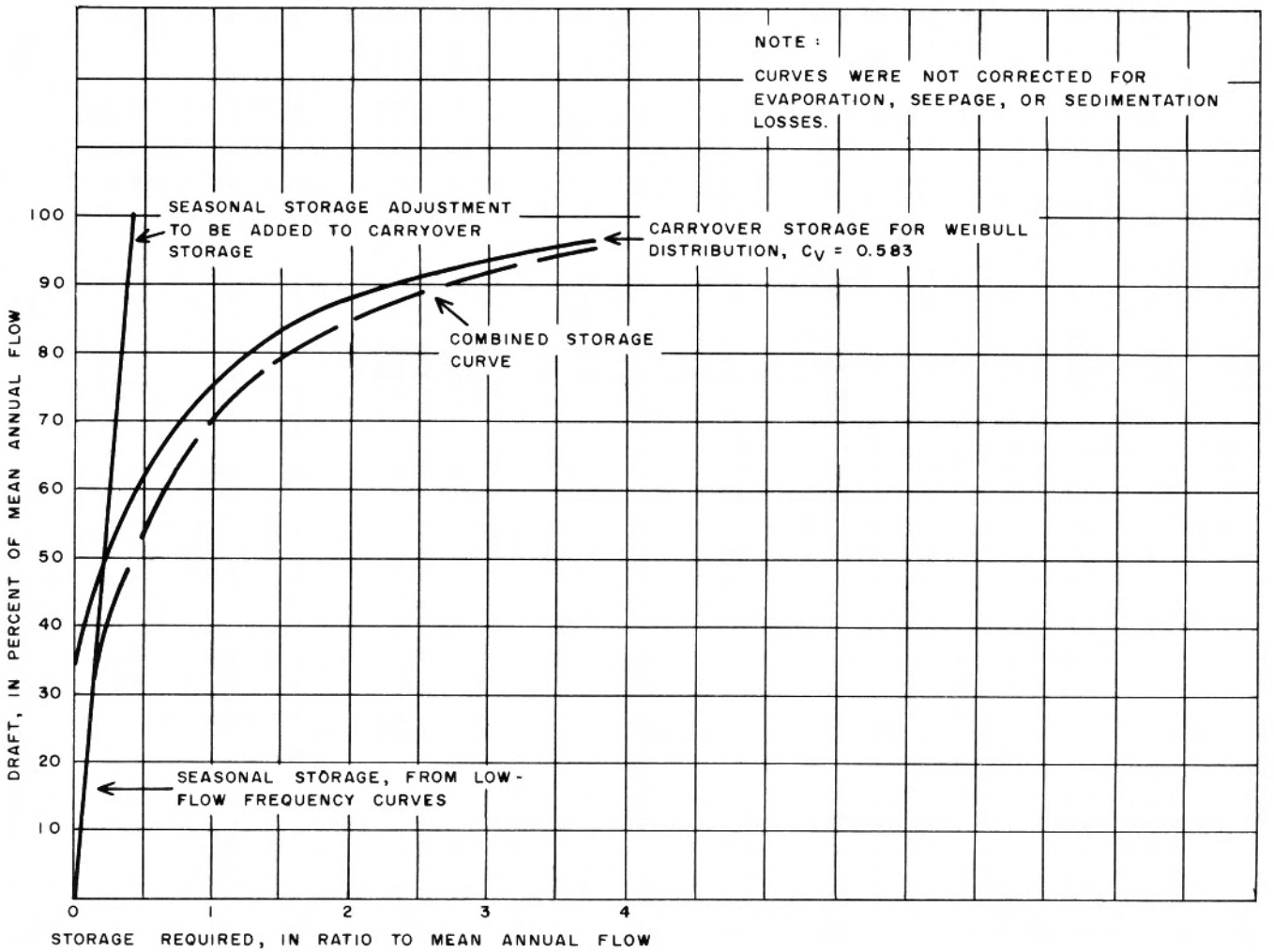


**Figure 2.** Combination of seasonal and carryover storage requirements for a 5-percent chance of deficiency, Fox River at Wayland, Mo.

For draft rates lower than the lowest annual mean flow, no carryover storage is required and within-year or seasonal storage is all that is required. Hardison (1966) described a procedure for combining seasonal and carryover storage requirements which was used for this report. Figure 2 illustrates Hardison's method as it was applied to data for Fox River at Wayland, Mo.

These procedures were used to approximate storage requirements for selected annual draft rates and chances of deficiency for all long-time continuous-record stations on unregulated streams in Missouri. These data, plus estimates of storage requirements at selected partial-record stations, were tabulated and are shown in the appendix. Plate 1 shows the geographic distribution of the gaging stations.

## Regional Draft-Storage Relations

Regional draft-storage-frequency curves were developed from continuous-record station data to provide a method of obtaining estimates of storage requirements at sites where long records of discharge are not available.

The first step in the procedure was the reduction of selected station draft and storage units to rates and volumes per square mile. Secondly, because there is a significant statewide range in average annual runoff, this parameter was chosen as a suitable regional characteristic of stream flow to use in defining the regional curves. Then, draft-storage data were plotted for selected chances of deficiency using three-parameter plots of storage against average annual runoff for selected draft rates.

Data plots indicated that areas of exceptionally high, well-sustained base flows in southern Missouri have quite different draft-storage characteristics from other areas. Accordingly, two sets of regional curves, designated A and B, were defined from gaging-station data and are presented in figures 3 to 8. The areas in which regional curves A and B are to be used are delineated on plate 1.

When storage estimates are made in the Crooked, E.F. Fishing, and James River basins (region A) the values must be multiplied by 1.5 to obtain reliable results. (See note on figs. 3, 4, and 5.) For undetermined reasons, these basins were the only ones in either region for which gaging-station data indicated a significant deviation from regional patterns.

The standard errors of estimate for the regional curves were determined graphically and found to be 20 percent or less. This means that estimates from the regional curves will be within 20 percent of the correct value at about two-thirds of the sites

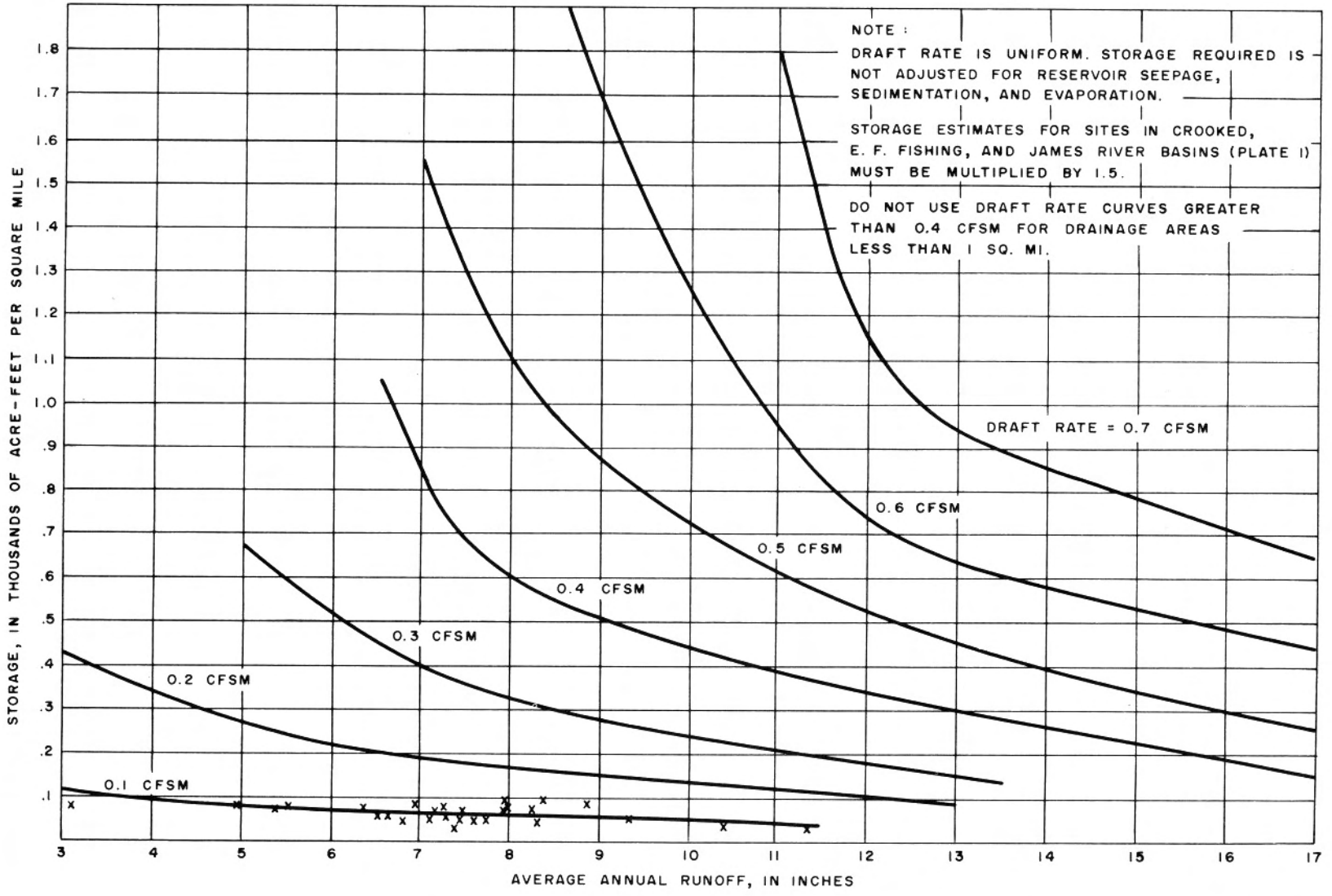


**Figure 3.** Draft-storage curves for Region A, 2-percent chance of deficiency.

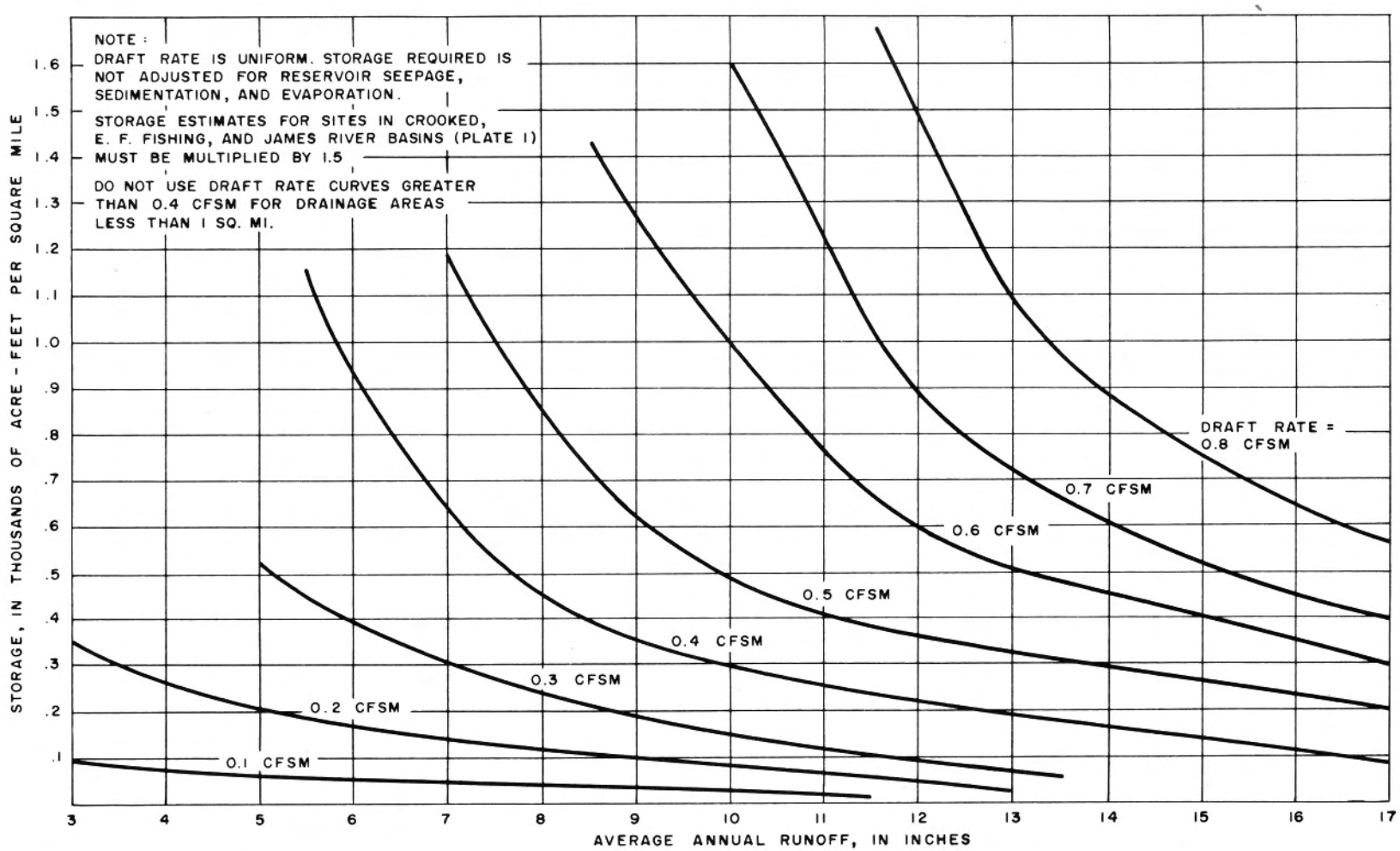


**Figure 4.** Draft-storage curves for Region A, 5-percent chance of deficiency.

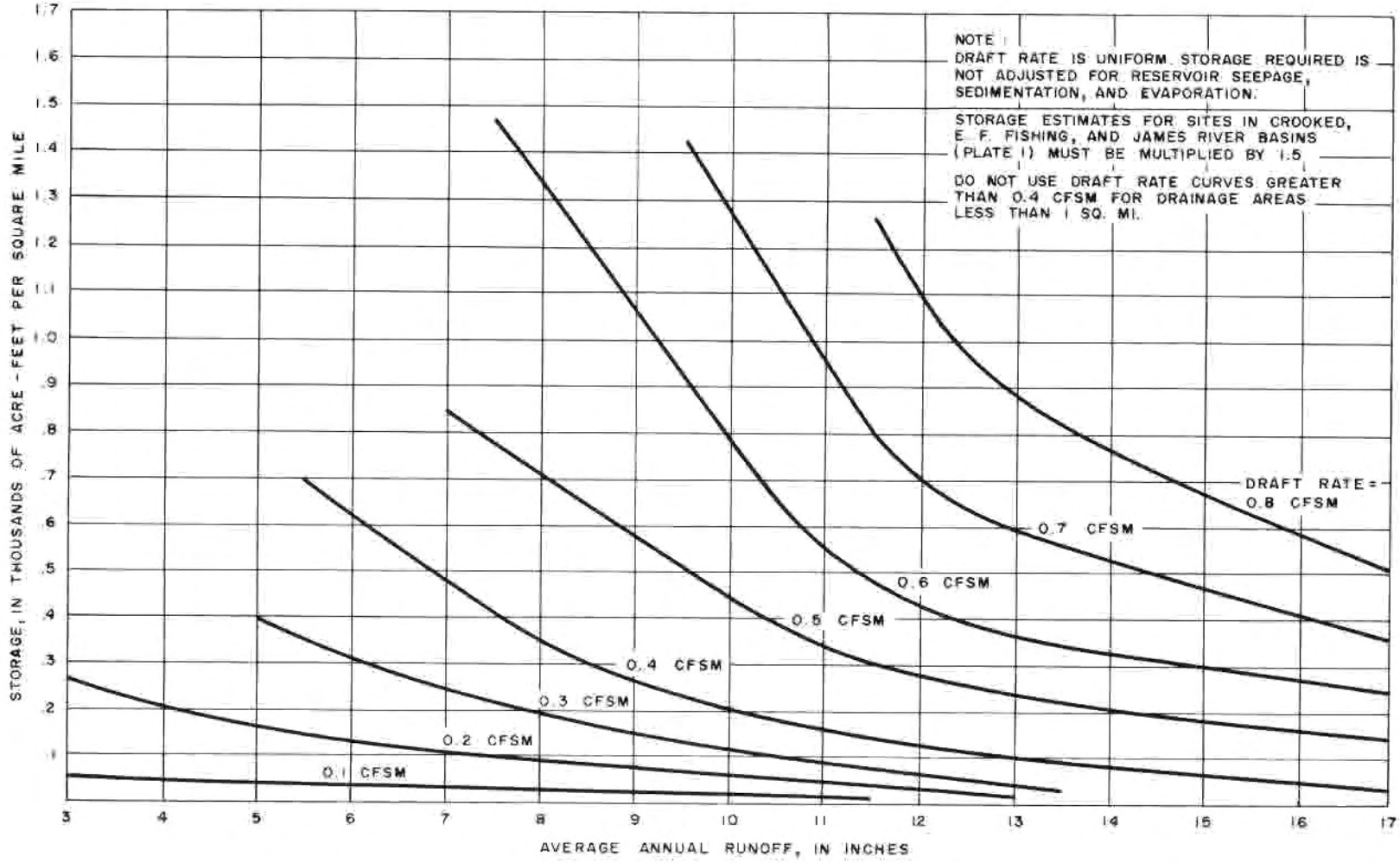


**Figure 5.** Draft-storage curves for Region A, 10-percent chance of deficiency.

and within 40 percent of the correct value at about 95 percent of the sites.

Definition of the regional curves is illustrated by plotting station data for region A for a draft rate of 0.1 cfs per sq. mi. (cubic feet per second per square mile) and 2-percent chance of deficiency (fig. 3).

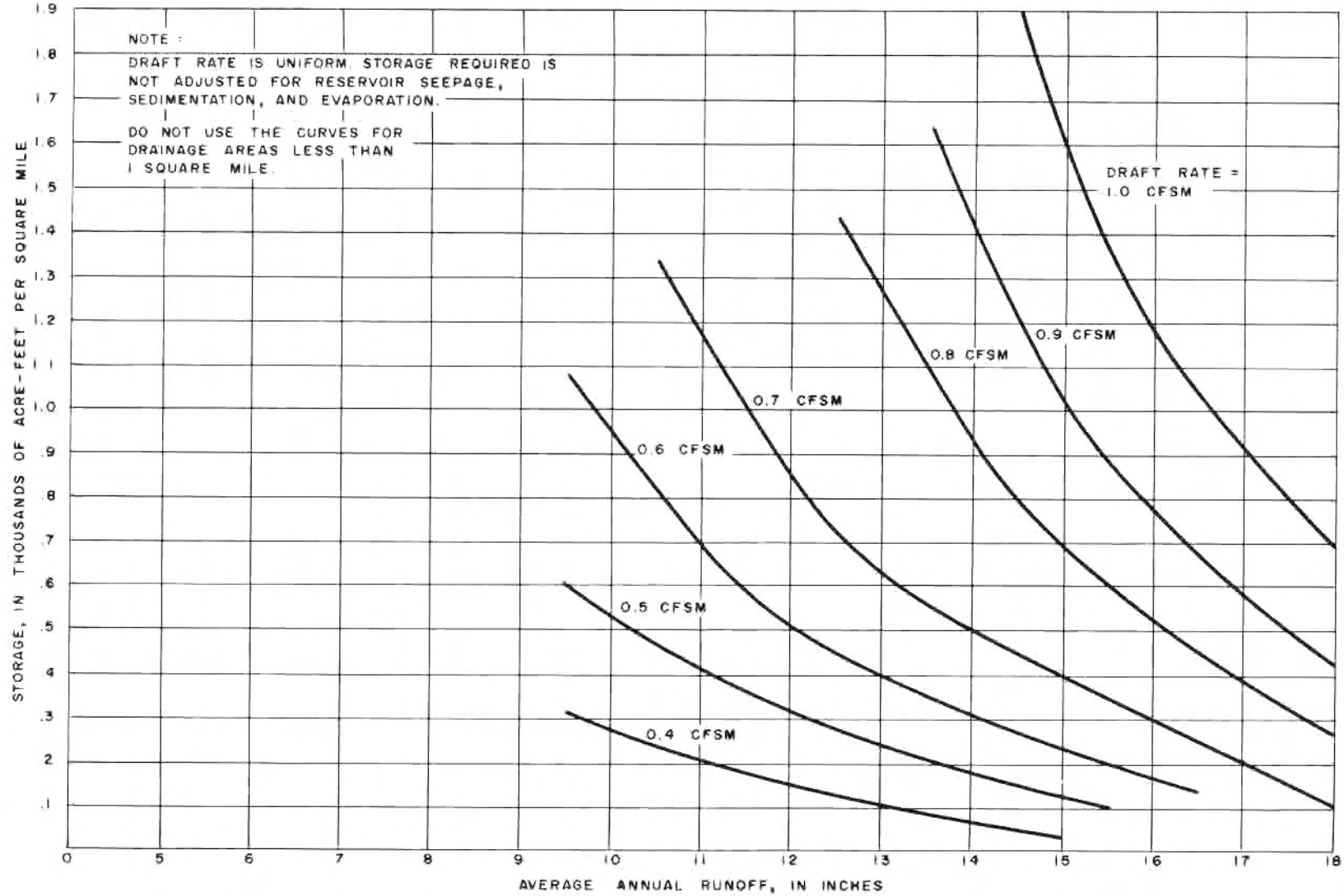


**Figure 6.** Draft-storage curves for Region B, 2-percent chance of deficiency.

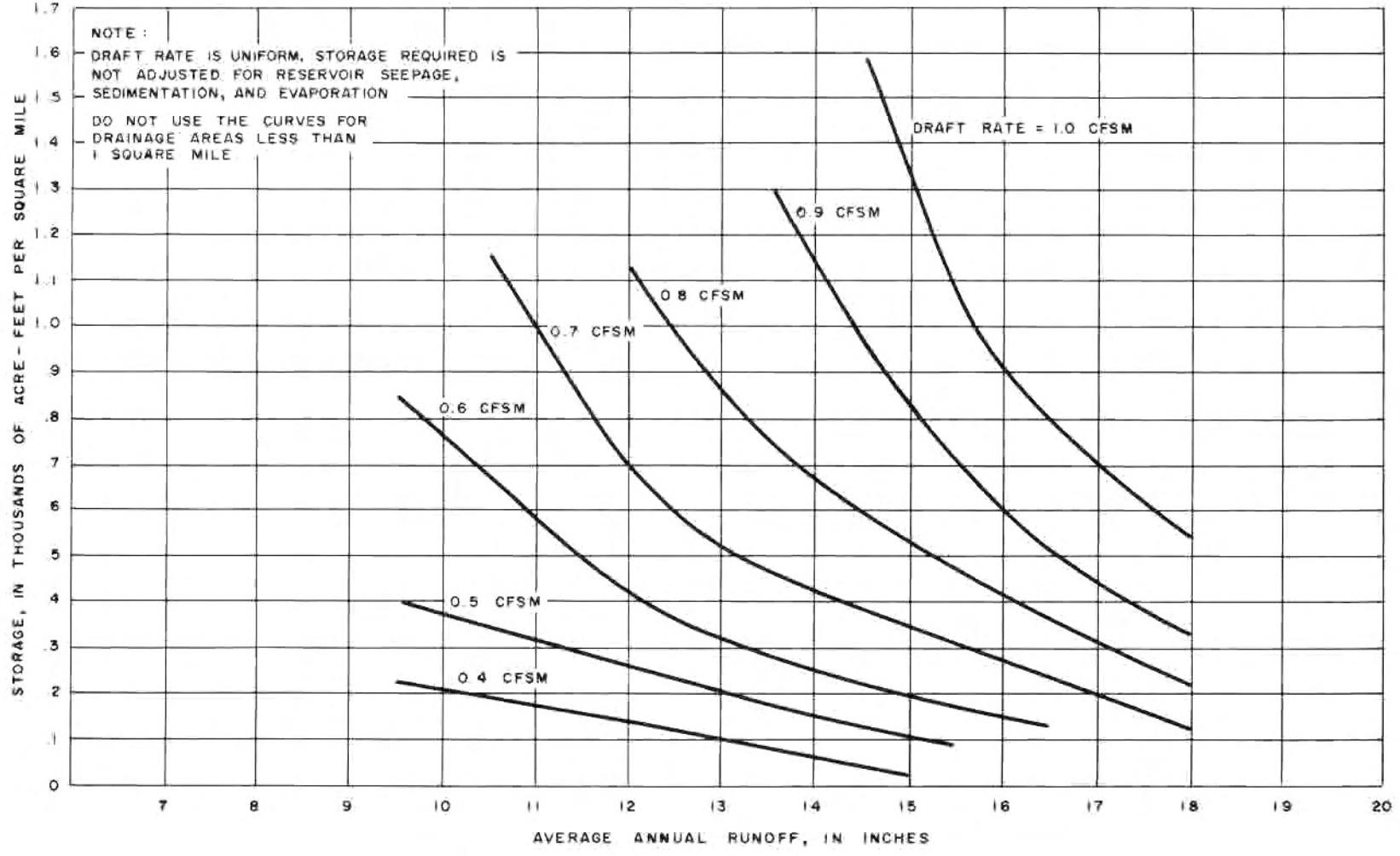


**Figure 7.** Draft-storage curves for Region B, 5-percent chance of deficiency.

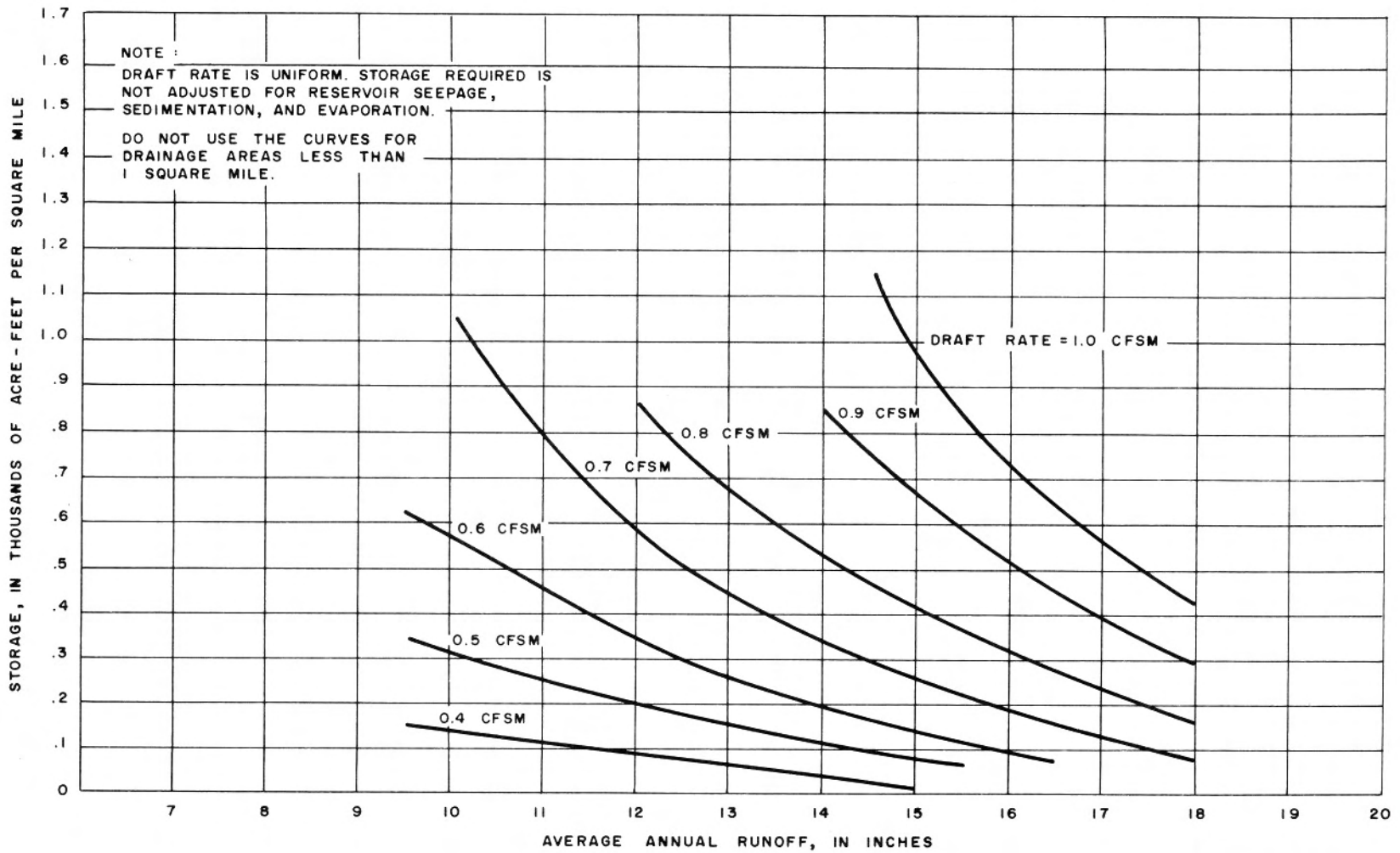


**Figure 8.** Draft-storage curves for Region B, 10-percent chance of deficiency.

## APPLYING STATION DATA AND REGIONAL CURVES TO RESERVOIR DESIGN

When the designer is interested in locating a structure at or very near the sites shown on plate 1, then the data presented in the appendix are applicable, with perhaps a small adjustment for drainage area differential. At other potential sites, the regional curves, figures 3 through 8, must be used as follows:

(1) Determine from plate 1 whether the proposed site is in region A or B.

(2) Measure the drainage area upstream from the site from the best available topographic map.

(3) Determine average annual runoff for the basin by interpolating to the nearest inch between isopleths of average annual runoff shown on plate 1. Use the center of the basin as the point of estimation.

(4) Decide whether the 2-, 5-, or 10-percent chance of deficiency is more appropriate to the economics of the problem.

(5) Use the appropriate regional curves and estimate storage requirements.

As an illustrative example, assume that (1) a proposed site is located in region A, (2) the drainage area above the site is 200 square miles, (3) the average annual runoff is 10 inches and (4) a 10-percent chance of deficiency can be tolerated. Figure 5 defines draft-storage relationships in region A for a 10-percent chance of deficiency, and the following table summarizes the draft-storage estimates obtained from that figure. In 10 percent of the years, on the average, the storage estimates shown will be inadequate to sustain the draft rates listed, and the reservoir may become empty. Estimates of reservoir losses from evaporation, seepage, and sediment deposition will also be necessary so that compensating adjustments can be made to the storage values shown in the table.

TABLE 1
Draft-Storage Estimates

| Draft | | Storage | |
|---|---|---|---|
| Cubic feet per second per square mile | Cubic feet per second | Thousands of acre-feet per square mile | Thousands of acre-feet |
| 0.1 | 20 | 0.02 | 4 |
| 0.2 | 40 | 0.06 | 12 |
| 0.3 | 60 | 0.11 | 22 |
| 0.4 | 80 | 0.20 | 40 |
| 0.5 | 100 | 0.44 | 88 |
| 0.6 | 120 | 0.78 | 156 |
| 0.7 | 140 | 1.27 | 254 |

## RESERVOIR LOSSES

For this report, no adjustments have been made for losses due to evaporation, seepage or sedimentation. A detailed discussion of regional adjustments to storage requirements for these losses has been presented by Skelton (1968, p. 15-23). This information will be valuable in preliminary studies. However, a more detailed analysis will be necessary at the reservoir site prior to construction of major structures.

## LIMITATIONS OF DATA

Before the station data and regional curves are used in project planning and analysis, the following limitations and restrictions should be considered:

(1) The regional curves do not apply to regulated streams.

(2) The regional curves should not be extrapolated beyond the limits shown.

(3) If the drainage area for a proposed site is less than one square mile, use of regional curves should be limited to draft rates of 0.1-0.4 cfs per square mile. Plots of draft-storage data from the two gaging stations with drainage areas less than one square mile indicate a deviation from regional draft-storage relations above draft rates of 0.4 cfs per square mile.

(4) Draft-storage-frequency data are not shown for the Southeastern Lowlands region, where the flat terrain makes large surface storage reservoirs impractical. Moreover, storage facilities are generally unnecessary in this region because ample water supplies for most uses are available from the streams and from shallow wells in the alluvium.

(5) Regional storage values are based on the average of values from many long-time stream-gaging stations. The user should be aware of the possibility of anomalous areas having streamflow characteristics greatly different from other streams. Anomalous runoff patterns may occur within and among basins throughout Missouri, but are much more prevalent in the cavernous limestone and dolomite formations of the Missouri Ozarks (fig. 9). The areas of anomalous runoff which have been observed are delineated on plate 1, but more of these areas are certain to exist. Field reconnaissance of potential reservoir sites, especially on small Ozark tributary streams, is strongly recommended to avoid gross underestimation of storage requirements.

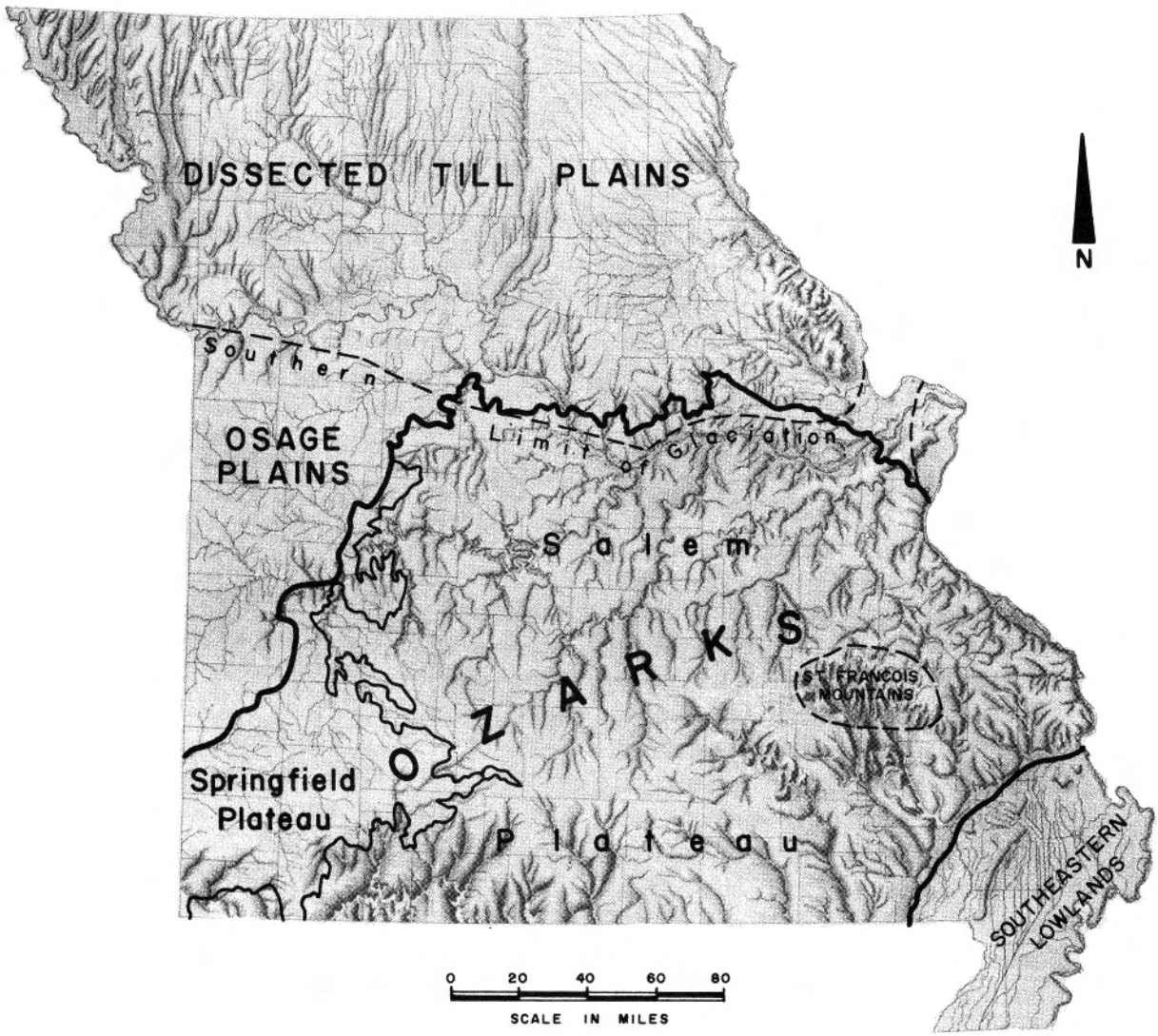


**Figure 9.** Map showing the physiographic divisions of Missouri.

# REFERENCES

BEARD, L.R., 1964, Estimating long-term storage requirements and firm yield of rivers: Intnatl. Assoc. Sci. Hydrol., Pub. 63, p. 151-166.

CROSS, W.P., 1963, Low-flow frequencies and storage requirements for selected Ohio streams: Ohio Dept. Nat. Resources, Div. Water, Bull. 37.

FENNEMAN, N.M., 1938, Physiography of the eastern United States: McGraw-Hill, 714 p.

FURNESS, L.W., 1962, Storage requirements to sustain gross reservoir outflow: Kansas Water Resources Board, Tech. Rept. n. 4.

HARDISON, C.H., 1966, Storage to augment low flow in Reservoir yield symposium, St. Hilda's College Proc., Oxford, England, 1965: Medmenham, Buckinghamshire, England, Water Research Assoc., Paper 8 , 41 p.

LANGBEIN, W.B., 1958, Queuing theory and water storage : Jour. Hydrol. Eng. Div., Am. Soc. Civil Eng., v. 84, n. Hy 5, Proc. paper n. 1811, 24 p.

RIGGS, H.C., 1966, Hydrologic data for reservoir design, in Hydrology of lakes and reservoirs, v. 2: Intnatl. Assoc. Sci. Hydrol. Pub. 71, p. 540-550.

SKELTON, JOHN, 1968, Storage requirements to augment low flows of Missouri streams: Mo. Geol. Survey and Water Resources, Water Resources Rept. 22, 78 p.

STALL, J.B., 1962, Reservoir mass analysis by a low-flow series: Jour. San. Eng. Div., Am. Soc. Civil Eng., v. 88, n. SA 5, pt. 1, p. 21-40.

# INDEX OF STATION NAMES
(*Indicates Continuous-Record Station)

| STATION NUMBER (see appendix) | STATION NAME |
|---|---|
| | (continued)..... |
| 7-1864 | Center Creek near Carterville* |
| 7-1862 | Center Creek near Fidelity |
| 7-1861 | Center Creek near Sarcoxie |
| 7-1864.2 | Center Creek near Webb City |
| 6-9045 | Chariton River at Novinger* |
| 6-9055 | Chariton River near Prairie Hill* |
| 6-9183.2 | Clear Creek near Eldorado Springs |
| 6-9184.3 | Clear Creek near Phenix |
| 7-0142 | Courtois Creek at Berryman |
| 7-0211.5 | Crooked Creek at Lutesville |
| 6-8950 | Crooked River near Richmond* |
| 5-5145 | Cuivre River near Troy* |
| 7-0680 | Current River at Doniphan* |
| 7-0649.5 | Current River at Round Spring |
| 7-0670 | Current River at Van Buren * |
| 7-0665 | Current River near Eminence* |
| | **D** |
| 5-5147.2 | Dardenne Creek near Weldon Spring |
| 6-9078 | Davis Creek at Sweet Springs |
| 6-9217.8 | Deepwater Creek near Montrose |
| 7-0157.6 | Dry Fork Creek near Owensville |
| | **E** |
| 6-8970 | East Fork Big Creek near Bethany* |
| 7-0613 | East Fork Black River at Lesterville* |
| 6-8945 | East Fork Fishing River at Excelsior Springs |
| 6-8964 | East Fork Grand River at Albany |
| 7-0715 | Eleven Point River near Bardley* |
| 7-0705 | Eleven Point River near Thomasville* |
| 5-5070 | Elk Fork Salt River near Paris* |
| 7-1888.5 | Elk River at Pineville |
| 7-1890 | Elk River near Tiff City* |
| | **F** |
| 6-9357.5 | Femme Osage Creek near Weldon Spring |
| 7-0523 | Finley Creek near Ozark |
| 6-8943 | Fishing River at Mosby |
| 6-8946 | Fishing River near Orrick |
| 7-0528 | Flat Creek at Jenkins |
| 6-9067 | Flat Creek near Sedalia* |
| 5-4950 | Fox River at Wayland* |

| STATION NUMBER (see appendix) | STATION NAME |
|---|---|
| | (continued)..... |
| 6-9309 | Little Piney Creek at Yancy Mills |
| 6-8211 | Little Platte River near Trimble |
| 6-9188 | Little Sac River near Aldrich |
| 7-0350 | Little St. Francis River at Fredericktown* |
| 6-9015 | Locust Creek near Linneus |
| 6-8968 | Lost Creek near Weatherby |
| 6-9355 | Loutre River at Mineola* |
| | **M** |
| 6-9270 | Maries River at Westphalia* |
| 6-9000 | Medicine Creek near Galt |
| 6-9005 | Medicine Creek near Sturges |
| 6-9006 | Medicine Creek near Wheeling |
| 7-0170 | Meramec River at Robertsville* |
| 7-0190 | Meramec River near Eureka* |
| 7-0104 | Meramec River near St. James |
| 7-0130 | Meramec River near Steelville* |
| 7-0145 | Meramec River near Sullivan* |
| 6-9166.7 | Miami Creek near Butler |
| 5-4975 | Middle Fabius River near Baring* |
| 5-4980 | Middle Fabius River near Monticello* |
| 7-0611.7 | Middle Fork Black River near Lesterville |
| 6-9064.5 | Middle Fork Chariton River near Salisbury |
| 6-8961.85 | Middle Fork Grand River at Grant City |
| 6-8961.9 | Middle Fork Grand River near Albany |
| 5-5065 | Middle Fork Salt River at Paris* |
| 6-9270.5 | Middle River near Mokane |
| 7-0178 | Mineral Fork near Potosi |
| 6-9095 | Moniteau Creek near Fayette* |
| 6-9105 | Moreau River near Jefferson City* |
| 6-8995.5 | Muddy Creek at Trenton |
| 6-9061 | Mussel Fork at Keytesville |
| | **N** |
| 6-9232 | Niangua River near Buffalo |
| 6-8175 | Nodaway River near Burlington Junction* |
| 6-8178 | Nodaway River near Oregon |
| 5-4969.5 | North Fabius River at Memphis |
| 5-4970 | North Fabius River at Monticello* |
| 5-4985 | North Fabius River at Taylor* |
| 5-5143 | North Fork Cuivre River at Silex |
| 7-0575 | North Fork River near Tecumseh* |
| 7-0574 | North Fork River at Twin Bridges |

| STATION NUMBER (see appendix) | STATION NAME |
|---|---|
| | (continued)..... |
| 7-1858.5 | North Fork Spring River at Lamar |
| 6-9104.2 | North Moreau Creek near California |
| 5-5005 | North River at Bethel* |
| 5-5010 | North River at Palmyra* |
| 5-4958 | North Wyaconda River near Granger |
| | **O** |
| 6-8195 | 102 River near Maryville* |
| 6-8204.8 | 102 River near St. Joseph |
| 6-9278 | Osage Fork at Drynob* |
| 6-9277.5 | Osage Fork near Orla |
| 6-9180.8 | Osage River near Schell City |
| | **P–Q** |
| 6-9007 | Parson Creek at Meadville |
| 6-9102.2 | Perche Creek near Columbia |
| 5-5147.1 | Peruque Creek near Wentzville |
| 6-9100 | Petite Saline Creek near Boonville* |
| 6-8205 | Platte River near Agency* |
| 6-9210 | Pomme de Terre River near Bolivar* |
| 6-9076 | Post Oak Creek at Warrensburg |
| | **R** |
| 6-9284.5 | Roubidoux Creek at Waynesville |
| | **S** |
| 6-9184.2 | Sac River at Ash Grove |
| 6-9200 | Sac River near Collins |
| 7-0375 | St. Francis River near Patterson* |
| 7-0340 | St. Francis River near Roselle |
| 6-9357.3 | St. Johns Creek near Washington |
| 5-5075 | Salt River near Monroe City* |
| 5-5080 | Salt River near New London * |
| 5-5022 | Salt River near Novelty |
| 5-5025 | Salt River near Shelbina* |
| 7-1870 | Shoal Creek above Joplin* |
| 6-8996.9 | Shoal Creek at Kingston |
| 7-1868.9 | Shoal Creek at Neosho |
| 7-1868.8 | Shoal Creek at Ritchey |
| 6-8998 | Shoal Creek near Chillicothe |
| 7-1867 | Shoal Creek near Fairview |
| 7-0648 | Sinking Creek near Round Spring |

| STATION NUMBER (see appendix) | STATION NAME |
|---|---|
| | (continued)..... |
| 5-5000 | South Fabius River near Taylor* |
| 5-5044 | South Fork Salt River at Mexico |
| 5-5050 | South Fork Salt River at Santa Fe* |
| 6-9215.9 | South Grand River at Archie |
| 6-9216 | South Grand River at Urich* |
| 6-9220 | South Grand River near Brownington* |
| 6-9215.8 | South Grand River near Freeman |
| 5-5088 | Spencer Creek near Frankford |
| 6-9301 | Spring Creek at Spring Creek |
| 7-0574.5 | Spring Creek at Twin Bridges |
| 7-1857 | Spring River at Larussell* |
| 7-0691.5 | Spring River at Thayer |
| 7-1858 | Spring River near Neck City |
| 7-1856.5 | Spring River near Stotts City |
| 7-1860 | Spring River near Waco* |
| 7-0539.8 | Swan Creek at Forsyth |
| | **T–U–V** |
| 6-8130 | Tarkio River at Fairfax |
| 6-9263 | Tavern Creek near St. Elizabeth |
| 6-8995 | Thompson River at Trenton |
| 6-8981 | Thompson River at Mt. Moriah* |
| 6-9184.7 | Turnback Creek near Greenfield |
| | **W–X** |
| 6-8960 | Wakenda Creek at Carrollton* |
| 6-8990 | Weldon River at Mill Grove* |
| 6-8985 | Weldon River near Mercer* |
| 6-8991 | Weldon River near Trenton |
| 7-0611.5 | West Fork Black River at Centerville |
| 5-5144.5 | West Fork Cuivre River near Troy |
| 6-8125 | West Tarkio Creek near Westboro* |
| 6-9023 | West Yellow Creek below Brookfield |
| 6-9022 | West Yellow Creek near Brookfield* |
| 6-9254.3 | Wet Glaize Creek near Brumley |
| 6-8204 | White Cloud Creek near Barnard |
| 7-0214 | Whitewater River at Millersville |
| 7-0216 | Whitewater River at Whitewater |
| 5-4960 | Wyaconda River above Canton* |
| | **Y–Z** |
| 6-9030 | Yellow Creek near Rothville |
| 5-5060 | Youngs Creek near Mexico* |

# APPENDIX

## Draft-Storage-Frequency Data At Continuous-Record and Partial - Record Streamflow Stations In Missouri

This appendix presents draft-storage - frequency data at stream-gaging stations in Missouri. The data were not corrected for evaporation, sedimentation, and seepage losses. Storage estimates are hydrologically feasible, but physical properties at the sites which may make the estimates impossible to attain were not considered.

Station number is a nationwide identification number used by the U.S. Geological Survey to locate the stations in downstream order. Stations are arranged in downstream order in this appendix; however, an alphabetical listing with station numbers is provided in the station index.

Station name gives the name of the continuous-record or partial-record station and a brief reference to a nearby town or city. See plate 1 for exact station locations.

Record used in analysis shows the water years (the water year begins Oct. 1) in which discharge record was obtained at the station.

Under drainage area is the most recently determined drainage area based on the most accurate maps available at the time of the determination.

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance [b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5-4950 | Fox River at Wayland | 1924-67 | 400[a] | 7.4 | | 20 cfs | 80 cfs | 120 cfs | 160 cfs | 200 cfs |
| | | | | | 2 | 10 | 50 | 115 | 250 | 570 |
| | | | | | 5 | 8 | 32 | 81 | 170 | 400 |
| | | | | | 10 | 5 | 15 | 45 | 125 | 310 |
| 5-4958 | North Wyaconda River near Granger | c | d | 7.0 | | 10 cfs | 20 cfs | 30 cfs | 40 cfs | 50 cfs |
| | | | | | 2 | 7 | 18 | 37 | 74 | 140 |
| | | | | | 5 | 5 | 13 | 28 | 57 | 104 |
| | | | | | 10 | 3 | 10 | 23 | 44 | 80 |
| 5-4960 | Wyaconda River above Canton | 1933-67 | 393 | 7.2 | | 20 cfs | 80 cfs | 120 cfs | 160 cfs | 190 cfs |
| | | | | | 2 | 15 | 75 | 150 | 300 | 680 |
| | | | | | 5 | 10 | 40 | 110 | 250 | 465 |
| | | | | | 10 | 8 | 35 | 85 | 180 | 320 |
| 5-4969.5 | North Fabius River at Memphis | c | d | 7.0 | | 17 cfs | 34 cfs | 50 cfs | 68 cfs | 85 cfs |
| | | | | | 2 | 12 | 29 | 63 | 126 | 238 |
| | | | | | 5 | 8 | 22 | 48 | 97 | 175 |
| | | | | | 10 | 5 | 17 | 39 | 75 | 136 |
| 5-4970 | North Fabius River at Monticello | 1924-67 | 452 | 7.5 | | 20 cfs | 100 cfs | 140 cfs | 180 cfs | 220 cfs |
| | | | | | 2 | 8 | 90 | 160 | 285 | 555 |
| | | | | | 5 | 5 | 60 | 115 | 215 | 410 |
| | | | | | 10 | 5 | 40 | 80 | 160 | 300 |
| 5-4975 | Middle Fabius River near Baring | 1936-60 | 185 | 7.6 | | 20 cfs | 40 cfs | 60 cfs | 80 cfs | 90 cfs |
| | | | | | 2 | 10 | 30 | 62 | 130 | 195 |
| | | | | | 5 | 8 | 20 | 45 | 100 | 150 |
| | | | | | 10 | 5 | 18 | 38 | 75 | 115 |
| 5-4980 | Middle Fabius River near Monticello | 1946-67 | 393 | 7.3 | | 30 cfs | 80 cfs | 120 cfs | 160 cfs | 200 cfs |
| | | | | | 2 | 18 | 60 | 120 | 230 | 590 |
| | | | | | 5 | 15 | 45 | 90 | 175 | 390 |
| | | | | | 10 | 10 | 35 | 70 | 140 | 290 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance [b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5-4985 | North Fabius River at Taylor | 1931-40 | 930 | 8.0 | | 93 cfs | 185 cfs | 280 cfs | 370 cfs | 465 cfs |
| | | | | | 2 | 56 | 160 | 345 | 680 | 1,310 |
| | | | | | 5 | 38 | 120 | 260 | 520 | 958 |
| | | | | | 10 | 28 | 93 | 214 | 409 | 735 |
| 5-5000 | South Fabius River near Taylor | 1937-67 | 620 | 7.6 | | 85 cfs | 150 cfs | 200 cfs | 250 cfs | 300 cfs |
| | | | | | 2 | 50 | 120 | 200 | 340 | 660 |
| | | | | | 5 | 35 | 95 | 165 | 280 | 510 |
| | | | | | 10 | 30 | 80 | 140 | 240 | 400 |
| 5-5005 | North River at Bethel | 1937-67 | 58[a] | 8.3 | | 8 cfs | 15 cfs | 20 cfs | 25 cfs | 30 cfs |
| | | | | | 2 | 4 | 12 | 22 | 36 | 60 |
| | | | | | 5 | 3 | 9 | 18 | 28 | 45 |
| | | | | | 10 | 3 | 8 | 15 | 24 | 38 |
| 5-5010 | North River at Palmyra | 1937-67 | 373 | 7.6 | | 50 cfs | 100 cfs | 130 cfs | 170 cfs | 200 cfs |
| | | | | | 2 | 30 | 95 | 155 | 305 | 610 |
| | | | | | 5 | 25 | 80 | 130 | 250 | 475 |
| | | | | | 10 | 20 | 65 | 105 | 200 | 340 |
| 5-5022 | Salt River near Novelty | c | d | 8.0 | | 15 cfs | 30 cfs | 45 cfs | 60 cfs | 75 cfs |
| | | | | | 2 | 9 | 27 | 54 | 104 | 196 |
| | | | | | 5 | 7 | 18 | 40 | 80 | 147 |
| | | | | | 10 | 4 | 14 | 33 | 63 | 117 |
| 5-5025 | Salt River near Shelbina | 1934-67 | 481 | 7.4 | | 75 cfs | 110 cfs | 150 cfs | 190 cfs | 230 cfs |
| | | | | | 2 | 45 | 95 | 185 | 330 | 710 |
| | | | | | 5 | 35 | 70 | 140 | 250 | 470 |
| | | | | | 10 | 30 | 65 | 120 | 190 | 340 |
| 5-5029 | Black Creek at Shelbyville | c | d | 8.0 | | 6 cfs | 13 cfs | 20 cfs | 26 cfs | 32 cfs |
| | | | | | 2 | 4 | 12 | 22 | 42 | 79 |
| | | | | | 5 | 3 | 8 | 17 | 32 | 60 |
| | | | | | 10 | 2 | 6 | 14 | 25 | 49 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5-5044 | South Fork Salt River at Mexico | c | d | 7.0 | | 12 cfs | 24 cfs | 36 cfs | 48 cfs | 60 cfs |
| | | | | | 2 | 8 | 23 | 47 | 96 | 180 |
| | | | | | 5 | 5 | 16 | 36 | 73 | 131 |
| | | | | | 10 | 4 | 12 | 29 | 56 | 100 |
| 5-5050 | South Fork Salt River at Santa Fe | 1940-67 | 298 | 7.5 | | 10 cfs | 40 cfs | 70 cfs | 100 cfs | 140 cfs |
| | | | | | 2 | 5 | 32 | 72 | 140 | 325 |
| | | | | | 5 | 4 | 25 | 55 | 105 | 240 |
| | | | | | 10 | 3 | 20 | 45 | 82 | 185 |
| 5-5060 | Youngs Creek near Mexico | 1937-67 | 67.4 | 8.2 | | 3 cfs | 10 cfs | 20 cfs | 30 cfs | 38 cfs |
| | | | | | 2 | 2 | 9 | 22 | 50 | 135 |
| | | | | | 5 | 1 | 6 | 16 | 38 | 90 |
| | | | | | 10 | 0.9 | 4 | 14 | 31 | 68 |
| 5-5065 | Middle Fork Salt River at Paris | 1940-67 | 356 | 8.0 | | 55 cfs | 80 cfs | 120 cfs | 160 cfs | 190 cfs |
| | | | | | 2 | 35 | 65 | 135 | 260 | 450 |
| | | | | | 5 | 30 | 50 | 100 | 190 | 350 |
| | | | | | 10 | 20 | 40 | 80 | 150 | 260 |
| 5-5070 | Elk Fork Salt River near Paris | 1935-54 | 262 | 9.4 | | 25 cfs | 60 cfs | 90 cfs | 125 cfs | 165 cfs |
| | | | | | 2 | 15 | 50 | 100 | 200 | 625 |
| | | | | | 5 | 12 | 35 | 75 | 160 | 380 |
| | | | | | 10 | 10 | 28 | 65 | 135 | 320 |
| 5-5075 | Salt River near Monroe City | 1940-67 | 2,230[a] | 7.8 | | 275 cfs | 400 cfs | 600 cfs | 800 cfs | 1,200 cfs |
| | | | | | 2 | 200 | 350 | 580 | 980 | 3,500 |
| | | | | | 5 | 125 | 200 | 380 | 700 | 2,500 |
| | | | | | 10 | 100 | 180 | 330 | 580 | 1,900 |
| 5-5080 | Salt River near New London | 1923-67 | 2,480[a] | 7.6 | | 300 cfs | 550 cfs | 800 cfs | 1,000 cfs | 1,350 cfs |
| | | | | | 2 | 150 | 500 | 950 | 1,450 | 4,100 |
| | | | | | 5 | 110 | 360 | 670 | 1,100 | 3,000 |
| | | | | | 10 | 100 | 280 | 550 | 880 | 2,250 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5-5088 | Spencer Creek near Frankford | c | d | 8.0 | | 22 cfs | 45 cfs | 68 cfs | 90 cfs | 112 cfs |
| | | | | | 2 | 14 | 38 | 72 | 133 | 241 |
| | | | | | 5 | 10 | 23 | 54 | 99 | 185 |
| | | | | | 10 | 7 | 20 | 43 | 76 | 158 |
| 5-5143 | North Fork Cuivre River at Silex | c | d | 9.0 | | 25 cfs | 52 cfs | 78 cfs | 130 cfs | 156 cfs |
| | | | | | 2 | 16 | 39 | 73 | 227 | 432 |
| | | | | | 5 | 10 | 26 | 49 | 161 | 325 |
| | | | | | 10 | 5 | 18 | 39 | 151 | 273 |
| 5-5144.5 | West Fork Cuivre River near Troy | c | d | 9.0 | | 57 cfs | 114 cfs | 170 cfs | 285 cfs | 342 cfs |
| | | | | | 2 | 35 | 86 | 154 | 484 | 923 |
| | | | | | 5 | 26 | 57 | 108 | 342 | 700 |
| | | | | | 10 | 11 | 40 | 80 | 319 | 586 |
| 5-5145 | Cuivre River near Troy | 1924-67 | 903 | 8.9 | | 25 cfs | 140 cfs | 260 cfs | 380 cfs | 500 cfs |
| | | | | | 2 | 15 | 140 | 290 | 540 | 1,100 |
| | | | | | 5 | 10 | 75 | 180 | 390 | 870 |
| | | | | | 10 | 6 | 65 | 170 | 320 | 640 |
| 5-5146 | Big Creek near Moscow Mills | c | d | 10.0 | | 12 cfs | 24 cfs | 48 cfs | 60 cfs | 72 cfs |
| | | | | | 2 | 7 | 18 | 58 | 95 | 175 |
| | | | | | 5 | 5 | 11 | 38 | 66 | 134 |
| | | | | | 10 | 2 | 8 | 28 | 61 | 110 |
| 5-5147.1 | Peruque Creek near Wentzville | c | d | 10.0 | | 5 cfs | 10 cfs | 20 cfs | 30 cfs | 35 cfs |
| | | | | | 2 | 3 | 7 | 22 | 64 | - |
| | | | | | 5 | 2 | 4 | 14 | 50 | - |
| | | | | | 10 | 1 | 3 | 12 | 40 | 64 |
| 5-5147.2 | Dardenne Creek near Waldon Spring | c | d | 10.0 | | 5 cfs | 10 cfs | 20 cfs | 30 cfs | 35 cfs |
| | | | | | 2 | 3 | 7 | 22 | 64 | - |
| | | | | | 5 | 2 | 4 | 14 | 50 | - |
| | | | | | 10 | 1 | 3 | 12 | 40 | 64 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency[b] (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-8125 | West Tarkio Creek Near Westboro | 1934-39 | 105 | 5.0 | | 10 cfs | 21 cfs | | | |
| | | | | | 2 | 8 | 28 | | | |
| | | | | | 5 | 5 | 22 | | | |
| | | | | | 10 | 4 | 17 | | | |
| 6-8130 | Tarkio River at Fairfax | 1924-67 | 508 | 5.0 | | 25 cfs | 60 cfs | 90 cfs | 120 cfs | 150 cfs |
| | | | | | 2 | 12 | 60 | 105 | 185 | 360 |
| | | | | | 5 | 6 | 40 | 85 | 145 | 260 |
| | | | | | 10 | 5 | 30 | 62 | 110 | 195 |
| 6-8175 | Nodaway River near Burlington Junction | 1924-67 | 1,240[a] | 5.5 | | 65 cfs | 150 cfs | 230 cfs | 310 cfs | 400 cfs |
| | | | | | 2 | 25 | 140 | 260 | 465 | 940 |
| | | | | | 5 | 15 | 95 | 200 | 370 | 720 |
| | | | | | 10 | 12 | 75 | 160 | 285 | 550 |
| 6-8178 | Nodaway River near Oregon | c | d | 6.0 | | 175 cfs | 350 cfs | 525 cfs | 700 cfs | |
| | | | | | 2 | 123 | 385 | 946 | - | |
| | | | | | 5 | 88 | 298 | 700 | 1,610 | |
| | | | | | 10 | 70 | 228 | 560 | 1,120 | |
| 6-8195 | One Hundred and Two River near Maryville | 1933-67 | 500[a] | 5.4 | | 20 cfs | 50 cfs | 80 cfs | 120 cfs | 165 cfs |
| | | | | | 2 | 12 | 40 | 85 | 175 | 430 |
| | | | | | 5 | 8 | 32 | 70 | 150 | 340 |
| | | | | | 10 | 7 | 30 | 60 | 115 | 235 |
| 6-8204 | White Cloud Creek near Barnard | c | d | 6.0 | | 6 cfs | 12 cfs | 18 cfs | 24 cfs | |
| | | | | | 2 | 4 | 14 | 33 | - | |
| | | | | | 5 | 3 | 10 | 25 | 57 | |
| | | | | | 10 | 2 | 8 | 21 | 41 | |
| 6-8204.8 | One Hundred and Two River near St. Joseph | c | d | 6.0 | | 80 cfs | 152 cfs | 228 cfs | 304 cfs | |
| | | | | | 2 | 53 | 160 | 365 | - | |
| | | | | | 5 | 38 | 114 | 274 | 624 | |
| | | | | | 10 | 30 | 91 | 220 | 441 | |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-8205 | Platte River near Agency | 1933-67 | 1,760[a] | 6.4 | | 65 cfs | 200 cfs | 340 cfs | 480 cfs | 640 cfs |
| | | | | | 2 | 30 | 175 | 390 | 780 | 1,680 |
| | | | | | 5 | 22 | 110 | 280 | 570 | 1,340 |
| | | | | | 10 | 18 | 95 | 250 | 490 | 950 |
| 6-8209 | Castile Creek near Gower | c | d | 7.0 | | 16 cfs | 32 cfs | 48 cfs | 64 cfs | |
| | | | | | 2 | 11 | 30 | 69 | 157 | |
| | | | | | 5 | 8 | 22 | 53 | 115 | |
| | | | | | 10 | 5 | 18 | 42 | 85 | |
| 6-8210 | Jenkins Branch at Gower | 1951-52, 1956-67 | 2.72 | 7.4 | | 0.2 cfs | 0.6 cfs | 1 cfs | 1.5 cfs | |
| | | | | | 2 | 0.1 | 0.5 | 1.5 | 4.2 | |
| | | | | | 5 | 0.05 | 0.4 | 1.1 | 3.6 | |
| | | | | | 10 | - | 0.3 | 0.8 | 2.5 | |
| 6-8211 | Little Platte River near Trimble | c | d | 7.0 | | 20 cfs | 38 cfs | 57 cfs | 76 cfs | |
| | | | | | 2 | 13 | 36 | 80 | 177 | |
| | | | | | 5 | 10 | 27 | 61 | 131 | |
| | | | | | 10 | 6 | 21 | 47 | 97 | |
| 6-8935 | Blue River near Kansas City | 1941-67 | 188 | 9.9 | | 25 cfs | 50 cfs | 75 cfs | 100 cfs | 125 cfs |
| | | | | | 2 | 12 | 45 | 80 | 180 | 420 |
| | | | | | 5 | 10 | 35 | 75 | 135 | 290 |
| | | | | | 10 | 8 | 30 | 60 | 110 | 200 |
| 6-8940 | Little Blue River near Lake City | 1950-67 | 184 | 8.0 | | 12 cfs | 25 cfs | 50 cfs | 65 cfs | 80 cfs |
| | | | | | 2 | 6 | 16 | 54 | 98 | 175 |
| | | | | | 5 | 3 | 12 | 42 | 75 | 125 |
| | | | | | 10 | 1 | 8 | 30 | 55 | 95 |
| 6-8943 | Fishing River at Mosby | c | d | 7.0 | | 15 cfs | 26 cfs | 40 cfs | 52 cfs | 65 cfs |
| | | | | | 2 | 9 | 23 | 49 | 100 | 195 |
| | | | | | 5 | 7 | 17 | 38 | 77 | 138 |
| | | | | | 10 | 4 | 13 | 30 | 60 | 107 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-8945 | East Fork Fishing River at Excelsior Springs | 1953-67 | 20 | 8.2 | | 1 cfs | 3 cfs | 5 cfs | 8 cfs | 9.5 cfs |
| | | | | | 2 | 0.6 | 3.4 | 7.6 | - | - |
| | | | | | 5 | 0.4 | 2.2 | 5.6 | 16 | - |
| | | | | | 10 | 0.3 | 1.6 | 4.4 | 12 | 21 |
| 6-8946 | Fishing River near Orrick | c | d | 7.0 | | 28 cfs | 54 cfs | 80 cfs | 110 cfs | 135 cfs |
| | | | | | 2 | 20 | 50 | 97 | 192 | 364 |
| | | | | | 5 | 11 | 35 | 76 | 146 | 270 |
| | | | | | 10 | 8 | 24 | 59 | 116 | 214 |
| 6-8950 | Crooked River near Richmond | 1950-67 | 159 | 8.0 | | 12 cfs | 25 cfs | 40 cfs | 60 cfs | 80 cfs |
| | | | | | 2 | 8 | 26 | 54 | 128 | 285 |
| | | | | | 5 | 4 | 18 | 40 | 92 | 210 |
| | | | | | 10 | 3 | 16 | 35 | 74 | 165 |
| 6-8960 | Wakenda Creek at Carrollton | 1950-67 | 248 | 6.9 | | 12 cfs | 30 cfs | 60 cfs | 80 cfs | 100 cfs |
| | | | | | 2 | 6 | 28 | 84 | 152 | 290 |
| | | | | | 5 | 4 | 14 | 55 | 110 | 210 |
| | | | | | 10 | 3 | 10 | 45 | 85 | 160 |
| 6-8961.6 | Grand River near Grant City | c | d | 6.0 | | 22 cfs | 44 cfs | 66 cfs | 88 cfs | |
| | | | | | 2 | 15 | 48 | 119 | - | |
| | | | | | 5 | 11 | 37 | 88 | 205 | |
| | | | | | 10 | 9 | 29 | 70 | 141 | |
| 6-8961.7 | Grand River near Stanberry | c | d | 6.0 | | 40 cfs | 66 cfs | 100 cfs | 132 cfs | |
| | | | | | 2 | 23 | 69 | 162 | - | |
| | | | | | 5 | 16 | 50 | 122 | 281 | |
| | | | | | 10 | 13 | 40 | 99 | 198 | |
| 6-8961.85 | Middle Fork Grand River at Grant City | c | d | 6.0 | | 8 cfs | 15 cfs | 22 cfs | 30 cfs | |
| | | | | | 2 | 5 | 16 | 39 | - | |
| | | | | | 5 | 4 | 12 | 29 | 67 | |
| | | | | | 10 | 3 | 10 | 23 | 47 | |
| 6-8961.9 | Middle Fork Grand River near Albany | c | d | 6.0 | | 20 cfs | 40 cfs | 60 cfs | 80 cfs | |
| | | | | | 2 | 14 | 42 | 96 | - | |
| | | | | | 5 | 10 | 30 | 72 | 164 | |
| | | | | | 10 | 8 | 24 | 58 | 116 | |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-8964 | East Fork Grand River at Albany | c | d | 6.0 | | 32 cfs | 64 cfs | 96 cfs | 128 cfs | |
| | | | | | 2 | 22 | 68 | 154 | - | |
| | | | | | 5 | 16 | 48 | 115 | 263 | |
| | | | | | 10 | 13 | 38 | 93 | 186 | |
| 6-8965.5 | Grand River near Darlington | c | d | 6.0 | | 110 cfs | 210 cfs | 315 cfs | 420 cfs | |
| | | | | | 2 | 73 | 220 | 504 | - | |
| | | | | | 5 | 52 | 157 | 378 | 861 | |
| | | | | | 10 | 42 | 126 | 304 | 609 | |
| 6-8968 | Lost Creek near Weatherby | c | d | 7.0 | | 16 cfs | 33 cfs | 50 cfs | 66 cfs | |
| | | | | | 2 | 12 | 31 | 71 | 162 | |
| | | | | | 5 | 8 | 23 | 55 | 120 | |
| | | | | | 10 | 5 | 18 | 43 | 88 | |
| 6-8969 | Grand River near Pattonsburg | c | d | 7.0 | | 168 cfs | 336 cfs | 500 cfs | 670 cfs | |
| | | | | | 2 | 118 | 320 | 706 | 1,560 | |
| | | | | | 5 | 84 | 235 | 538 | 1,160 | |
| | | | | | 10 | 50 | 185 | 421 | 858 | |
| 6-8970 | East Fork Big Creek near Bethany | 1935-67 | 95 | 6.8 | | 5 cfs | 15 cfs | 25 cfs | 35 cfs | 42 cfs |
| | | | | | 2 | 1.5 | 11 | 31 | 73 | 142 |
| | | | | | 5 | 1.2 | 8.5 | 24 | 54 | 98 |
| | | | | | 10 | 0.5 | 5 | 16 | 40 | 72 |
| 6-8971 | Big Creek at Bethany | c | d | 7.0 | | 30 cfs | 62 cfs | 93 cfs | 125 cfs | |
| | | | | | 2 | 22 | 59 | 133 | 304 | |
| | | | | | 5 | 14 | 43 | 102 | 223 | |
| | | | | | 10 | 9 | 34 | 81 | 164 | |
| 6-8975 | Grand River near Gallatin | 1921-67 | 2,250[a] | 6.6 | | 130 cfs | 300 cfs | 475 cfs | 650 cfs | 900 cfs |
| | | | | | 2 | 60 | 230 | 460 | 900 | 2,300 |
| | | | | | 5 | 45 | 140 | 350 | 670 | 1,700 |
| | | | | | 10 | 40 | 110 | 300 | 550 | 1,300 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-8981 | Thompson River at Mt. Moriah | 1960-67 | 891 | 7.0 | | 95 cfs | 180 cfs | 265 cfs | 355 cfs | |
| | | | | | 2 | 62 | 169 | 374 | 829 | |
| | | | | | 5 | 45 | 125 | 285 | 615 | |
| | | | | | 10 | 27 | 98 | 223 | 454 | |
| 6-8985 | Weldon River near Mercer | 1940-59 | 246 | 7.6 | | 17 cfs | 40 cfs | 60 cfs | 80 cfs | 110 cfs |
| | | | | | 2 | 12 | 40 | 80 | 135 | 315 |
| | | | | | 5 | 7 | 25 | 52 | 96 | 235 |
| | | | | | 10 | 6 | 20 | 42 | 76 | 172 |
| 6-8990 | Weldon River at Mill Grove | 1930-67 | 494 | 6.8 | | 45 cfs | 80 cfs | 120 cfs | 160 cfs | 200 cfs |
| | | | | | 2 | 22 | 68 | 160 | 305 | 550 |
| | | | | | 5 | 20 | 48 | 110 | 215 | 405 |
| | | | | | 10 | 18 | 45 | 90 | 170 | 310 |
| 6-8991 | Weldon River near Trenton | c | d | 7.0 | | 58 cfs | 115 cfs | 170 cfs | 228 cfs | 285 cfs |
| | | | | | 2 | 34 | 103 | 205 | 400 | 775 |
| | | | | | 5 | 23 | 74 | 160 | 308 | 570 |
| | | | | | 10 | 17 | 51 | 126 | 245 | 450 |
| 6-8995 | Thompson River at Trenton | 1929-67 | 1,670[a] | 7.3 | | 115 cfs | 260 cfs | 410 cfs | 560 cfs | 730 cfs |
| | | | | | 2 | 60 | 250 | 500 | 880 | 1,750 |
| | | | | | 5 | 50 | 200 | 420 | 700 | 1,360 |
| | | | | | 10 | 40 | 140 | 280 | 520 | 1,100 |
| 6-8995.5 | Muddy Creek at Trenton | c | d | 8.0 | | 12 cfs | 25 cfs | 38 cfs | 50 cfs | 62 cfs |
| | | | | | 2 | 8 | 23 | 44 | 85 | 163 |
| | | | | | 5 | 6 | 15 | 34 | 66 | 123 |
| | | | | | 10 | 4 | 11 | 28 | 53 | 96 |
| 6-8995.7 | Honey Creek near Trenton | c | d | 8.0 | | 8 cfs | 15 cfs | 22 cfs | 30 cfs | 38 cfs |
| | | | | | 2 | 4 | 13 | 25 | 48 | 91 |
| | | | | | 5 | 3 | 9 | 20 | 37 | 70 |
| | | | | | 10 | 2 | 7 | 16 | 29 | 56 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-8996.8 | Grand River at Chillicothe | c | d | 8.0 | | 485 cfs | 970 cfs | 1,460 cfs | 1,940 cfs | 2,420 cfs |
| | | | | | 2 | 290 | 875 | 1,700 | 3,200 | 6,110 |
| | | | | | 5 | 194 | 582 | 1,260 | 2,520 | 4,610 |
| | | | | | 10 | 146 | 436 | 1,020 | 1,940 | 3,690 |
| 6-8996.9 | Shoal Creek at Kingston | c | d | 7.0 | | 20 cfs | 38 cfs | 57 cfs | 76 cfs | 95 cfs |
| | | | | | 2 | 14 | 36 | 76 | 162 | 294 |
| | | | | | 5 | 9 | 25 | 57 | 122 | 211 |
| | | | | | 10 | 6 | 19 | 46 | 91 | 160 |
| 6-8998 | Shoal Creek near Chillicothe | c | d | 8.0 | | 62 cfs | 125 cfs | 188 cfs | 250 cfs | 310 cfs |
| | | | | | 2 | 37 | 112 | 220 | 413 | 785 |
| | | | | | 5 | 26 | 75 | 163 | 319 | 594 |
| | | | | | 10 | 19 | 56 | 131 | 250 | 475 |
| 6-9000 | Medicine Creek near Galt | 1922-67 | 225 | 8.3 | | 10 cfs | 30 cfs | 80 cfs | 100 cfs | 120 cfs |
| | | | | | 2 | 4 | 20 | 120 | 215 | - |
| | | | | | 5 | 3 | 12 | 90 | 155 | 325 |
| | | | | | 10 | 2 | 8 | 68 | 125 | 235 |
| 6-9005 | Medicine Creek near Sturges | c | d | 8.0 | | 37 cfs | 74 cfs | 110 cfs | 148 cfs | 184 cfs |
| | | | | | 2 | 22 | 63 | 120 | 228 | 430 |
| | | | | | 5 | 15 | 44 | 92 | 177 | 332 |
| | | | | | 10 | 11 | 33 | 74 | 140 | 270 |
| 6-9006 | Medicine Creek near Wheeling | c | d | 8.0 | | 50 cfs | 100 cfs | 150 cfs | 200 cfs | 250 cfs |
| | | | | | 2 | 30 | 85 | 165 | 310 | 585 |
| | | | | | 5 | 20 | 60 | 125 | 240 | 450 |
| | | | | | 10 | 15 | 45 | 100 | 190 | 365 |
| 6-9007 | Parson Creek at Meadville | c | d | 8.0 | | 20 cfs | 38 cfs | 57 cfs | 95 cfs | 114 cfs |
| | | | | | 2 | 11 | 32 | 63 | 217 | - |
| | | | | | 5 | 9 | 23 | 47 | 167 | - |
| | | | | | 10 | 6 | 17 | 36 | 137 | 258 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9015 | Locust Creek near Linneus | 1931-67 | 550[a] | 8.0 | | 20 cfs | 80 cfs | 140 cfs | 200 cfs | 250 cfs |
| | | | | | 2 | 10 | 70 | 155 | 305 | 600 |
| | | | | | 5 | 8 | 52 | 115 | 225 | 440 |
| | | | | | 10 | 6 | 40 | 85 | 180 | 340 |
| 6-9020 | Grand River near Sumner | 1925-67 | 6,880[a] | 7.2 | | 360 cfs | 1,000 cfs | 1,700 cfs | 2,400 cfs | 3,000 cfs |
| | | | | | 2 | 150 | 980 | 2,100 | 3,800 | 7,200 |
| | | | | | 5 | 100 | 500 | 1,400 | 2,500 | 4,500 |
| | | | | | 10 | 90 | 400 | 1,300 | 2,400 | 4,200 |
| 6-9022 | West Yellow Creek Near Brookfield | c | d | 8.0 | | 14 cfs | 28 cfs | 40 cfs | 68 cfs | 80 cfs |
| | | | | | 2 | 8 | 23 | 40 | 138 | - |
| | | | | | 5 | 6 | 15 | 31 | 104 | - |
| | | | | | 10 | 4 | 11 | 24 | 90 | 167 |
| 6-9023 | West Yellow Creek Below Brookfield | c | d | 8.0 | | 20 cfs | 38 cfs | 57 cfs | 95 cfs | 114 cfs |
| | | | | | 2 | 11 | 32 | 57 | 194 | - |
| | | | | | 5 | 9 | 21 | 44 | 146 | - |
| | | | | | 10 | 6 | 15 | 34 | 127 | 236 |
| 6-9030 | Yellow Creek near Rothville | 1929-32, 1948-52, 1961-66 | 405 | 8.0 | | 40 cfs | 80 cfs | 120 cfs | 160 cfs | 200 cfs |
| | | | | | 2 | 24 | 70 | 130 | 240 | 445 |
| | | | | | 5 | 16 | 45 | 97 | 180 | 345 |
| | | | | | 10 | 12 | 36 | 77 | 140 | 285 |
| 6-9045 | Chariton River at Novinger | 1931-52, 1955-67 | 1,370[a] | 7.1 | | 90 cfs | 230 cfs | 370 cfs | 510 cfs | 670 cfs |
| | | | | | 2 | 60 | 180 | 440 | 860 | 2,400 |
| | | | | | 5 | 35 | 140 | 320 | 640 | 1,700 |
| | | | | | 10 | 30 | 120 | 270 | 510 | 1,120 |
| 6-9055 | Chariton River near Prairie Hill | 1930-67 | 1,870 | 7.8 | | 165 cfs | 340 cfs | 500 cfs | 680 cfs | 930 cfs |
| | | | | | 2 | 80 | 280 | 530 | 1,000 | 3,000 |
| | | | | | 5 | 60 | 200 | 410 | 780 | 2,260 |
| | | | | | 10 | 50 | 170 | 320 | 600 | 1,420 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9061 | Mussel Fork at Keytesville | c | d | 9.0 | | 35 cfs | 66 cfs | 100 cfs | 165 cfs | 198 cfs |
| | | | | | 2 | 20 | 53 | 96 | 314 | 611 |
| | | | | | 5 | 16 | 36 | 69 | 228 | 448 |
| | | | | | 10 | 10 | 26 | 53 | 208 | 383 |
| 6-9064.5 | Middle Fork Chariton River near Salisbury | c | d | 9.0 | | 15 cfs | 30 cfs | 45 cfs | 75 cfs | 90 cfs |
| | | | | | 2 | 9 | 22 | 42 | 133 | 255 |
| | | | | | 5 | 7 | 15 | 30 | 96 | 192 |
| | | | | | 10 | 3 | 10 | 22 | 88 | 162 |
| 6-9067 | Flat Creek near Sedalia | c | d | 9.0 | | 15 cfs | 30 cfs | 45 cfs | 75 cfs | 90 cfs |
| | | | | | 2 | 9 | 22 | 40 | 126 | 240 |
| | | | | | 5 | 7 | 15 | 28 | 89 | 181 |
| | | | | | 10 | 3 | 10 | 21 | 83 | 151 |
| 6-9070 | Lamine River at Clifton City | 1924-67 | 598 | 10.0 | | 60 cfs | 130 cfs | 200 cfs | 270 cfs | 375 cfs |
| | | | | | 2 | 25 | 110 | 220 | 390 | 980 |
| | | | | | 5 | 20 | 60 | 140 | 300 | 700 |
| | | | | | 10 | 15 | 55 | 125 | 225 | 550 |
| 6-9075.5 | Blackwater River near Warrensburg | c | d | 8.0 | | 40 cfs | 80 cfs | 160 cfs | 200 cfs | 240 cfs |
| | | | | | 2 | 24 | 68 | 232 | 420 | - |
| | | | | | 5 | 18 | 44 | 168 | 320 | - |
| | | | | | 10 | 12 | 32 | 132 | 272 | 508 |
| 6-9076 | Post Oak Creek at Warrensburg | c | d | 8.0 | | 13 cfs | 26 cfs | 40 cfs | 65 cfs | 78 cfs |
| | | | | | 2 | 8 | 22 | 40 | 136 | - |
| | | | | | 5 | 5 | 14 | 30 | 104 | - |
| | | | | | 10 | 4 | 10 | 23 | 88 | 165 |
| 6-9077 | Blackwater River at Valley City | c | d | 8.0 | | 55 cfs | 110 cfs | 165 cfs | 275 cfs | 330 cfs |
| | | | | | 2 | 33 | 93 | 164 | 557 | - |
| | | | | | 5 | 24 | 60 | 126 | 422 | - |
| | | | | | 10 | 16 | 44 | 98 | 367 | 678 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Runoff (Inches) | Chance of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9078 | Davis Creek at Sweet Springs | c | d | 8.0 | | 24 cfs | 47 cfs | 70 cfs | 118 cfs | 140 cfs |
| | | | | | 2 | 14 | 38 | 70 | 235 | - |
| | | | | | 5 | 10 | 26 | 52 | 176 | - |
| | | | | | 10 | 7 | 19 | 40 | 153 | 282 |
| 6-9079 | Blackwater River at Sweet Springs | c | d | 8.0 | | 96 cfs | 192 cfs | 288 cfs | 480 cfs | 576 cfs |
| | | | | | 2 | 58 | 154 | 288 | 960 | - |
| | | | | | 5 | 38 | 106 | 211 | 720 | - |
| | | | | | 10 | 29 | 77 | 163 | 624 | 1,160 |
| 6-9080 | Blackwater River at Blue Lick | 1940-67 | 1,120[a] | 8.2 | | 95 cfs | 200 cfs | 310 cfs | 430 cfs | 580 cfs |
| | | | | | 2 | 60 | 190 | 360 | 640 | 1,500 |
| | | | | | 5 | 36 | 110 | 235 | 480 | 1,100 |
| | | | | | 10 | 30 | 90 | 200 | 380 | 840 |
| 6-9093.5 | Bonne Femme Creek at New Franklin | c | d | 10.0 | | 10 cfs | 33 cfs | 55 cfs | 66 cfs | 77 cfs |
| | | | | | 2 | 5 | 29 | 86 | 156 | - |
| | | | | | 5 | 4 | 19 | 59 | 121 | - |
| | | | | | 10 | 2 | 14 | 54 | 98 | 153 |
| 6-9095 | Moniteau Creek near Fayette | 1950-67 | 81[a] | 5.5 | | 9 cfs | 14 cfs | 18 cfs | 22 cfs | 26 cfs |
| | | | | | 2 | 6 | 16 | 24 | 33 | 48 |
| | | | | | 5 | 5 | 10 | 16 | 24 | 37 |
| | | | | | 10 | 4.5 | 7 | 10 | 16 | 25 |
| 6-9100 | Petite Saline Creek near Boonville | 1950-65 | 182 | 7.3 | | 20 cfs | 35 cfs | 50 cfs | 65 cfs | 78 cfs |
| | | | | | 2 | 16 | 32 | 55 | 104 | 178 |
| | | | | | 5 | 9 | 24 | 48 | 85 | 142 |
| | | | | | 10 | 7 | 20 | 40 | 70 | 116 |
| 6-9102.2 | Perche Creek near Columbia | c | d | 10.0 | | 25 cfs | 52 cfs | 104 cfs | 156 cfs | 182 cfs |
| | | | | | 2 | 16 | 36 | 122 | 370 | - |
| | | | | | 5 | 11 | 23 | 81 | 286 | - |
| | | | | | 10 | 5 | 18 | 60 | 232 | 361 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9104.15 | Cedar Creek near Cedar City | c | d | 10.0 | | 23 cfs | 46 cfs | 92 cfs | 138 cfs | 160 cfs |
| | | | | | 2 | 15 | 32 | 106 | 308 | - |
| | | | | | 5 | 11 | 21 | 69 | 241 | - |
| | | | | | 10 | 5 | 14 | 48 | 191 | 304 |
| 6-9104.2 | North Moreau Creek near California | c | d | 10.0 | | 15 cfs | 30 cfs | 60 cfs | 90 cfs | 105 cfs |
| | | | | | 2 | 9 | 19 | 64 | 178 | - |
| | | | | | 5 | 7 | 12 | 42 | 143 | 228 |
| | | | | | 10 | 3 | 9 | 28 | 110 | 180 |
| 6-9105 | Moreau River near Jefferson City | 1948-67 | 531 | 8.2 | | 50 cfs | 90 cfs | 150 cfs | 200 cfs | 255 cfs |
| | | | | | 2 | 25 | 70 | 150 | 240 | 430 |
| | | | | | 5 | 18 | 40 | 100 | 175 | 320 |
| | | | | | 10 | 14 | 30 | 60 | 120 | 225 |
| 6-9166.7 | Miami Creek near Butler | c | d | 8.0 | | 20 cfs | 40 cfs | 80 cfs | 100 cfs | 120 cfs |
| | | | | | 2 | 12 | 34 | 116 | 210 | - |
| | | | | | 5 | 9 | 22 | 84 | 160 | - |
| | | | | | 10 | 6 | 16 | 66 | 136 | 254 |
| 6-9170.3 | Little Osage River at Stotesbury | c | d | 8.0 | | 43 cfs | 85 cfs | 170 cfs | 214 cfs | 256 cfs |
| | | | | | 2 | 26 | 73 | 244 | 435 | - |
| | | | | | 5 | 20 | 47 | 175 | 330 | - |
| | | | | | 10 | 13 | 34 | 137 | 286 | 539 |
| 6-9170.6 | Little Osage River at Horton | c | d | 8.0 | | 142 cfs | 284 cfs | 568 cfs | 710 cfs | 852 cfs |
| | | | | | 2 | 85 | 227 | 795 | 1,420 | - |
| | | | | | 5 | 67 | 156 | 568 | 1,060 | - |
| | | | | | 10 | 43 | 114 | 440 | 923 | 1,720 |
| 6-9180.8 | Osage River near Schell City | c | d | 9.0 | | 550 cfs | 1,110 cfs | 2,210 cfs | 2,770 cfs | 3,320 cfs |
| | | | | | 2 | 332 | 885 | 2,940 | 5,150 | 9,900 |
| | | | | | 5 | 250 | 553 | 2,050 | 3,760 | 7,350 |
| | | | | | 10 | 111 | 443 | 1,610 | 3,380 | 6,250 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9183.2 | Clear Creek near Eldorado Springs | c | d | 9.0 | | 16 cfs | 33 cfs | 66 cfs | 82 cfs | 99 cfs |
| | | | | | 2 | 10 | 25 | 84 | 147 | 281 |
| | | | | | 5 | 8 | 16 | 59 | 106 | 211 |
| | | | | | 10 | 3 | 12 | 45 | 97 | 178 |
| 6-9184.2 | Sac River at Ash Grove | c | d | 11.0 | | 13 cfs | 26 cfs | 52 cfs | 65 cfs | 90 cfs |
| | | | | | 2 | 6 | 16 | 51 | 78 | 230 |
| | | | | | 5 | 4 | 9 | 32 | 52 | 159 |
| | | | | | 10 | 3 | 6 | 21 | 43 | 124 |
| 6-9184.3 | Clear Creek near Phenix | c | d | 11.0 | | 5 cfs | 10 cfs | 20 cfs | 30 cfs | 35 cfs |
| | | | | | 2 | 3 | 6 | 19 | 47 | 89 |
| | | | | | 5 | 2 | 4 | 12 | 38 | 61 |
| | | | | | 10 | 1 | 3 | 8 | 27 | 47 |
| 6-9184.7 | Turnback Creek near Greenfield | c | d | 11.0 | | 26 cfs | 52 cfs | 104 cfs | 130 cfs | 182 cfs |
| | | | | | 2 | 13 | 34 | 107 | 164 | - |
| | | | | | 5 | 8 | 18 | 68 | 109 | 346 |
| | | | | | 10 | 5 | 13 | 44 | 94 | 273 |
| 6-9188 | Little Sac River near Aldrich | c | 304 | 11.0 | | 30 cfs | 90 cfs | 120 cfs | 150 cfs | 180 cfs |
| | | | | | 2 | 12 | 65 | 120 | 180 | 290 |
| | | | | | 5 | 6 | 36 | 76 | 120 | 230 |
| | | | | | 10 | 5 | 24 | 48 | 100 | 190 |
| 6-9200 | Sac River near Collins | 1923-25 | 1,900[a] | 10.0 | | 190 cfs | 380 cfs | 760 cfs | 950 cfs | 1,140 cfs |
| | | | | | 2 | 114 | 285 | 912 | 1,500 | 2,780 |
| | | | | | 5 | 57 | 171 | 589 | 1,050 | 2,120 |
| | | | | | 10 | 38 | 114 | 437 | 968 | 1,750 |
| 6-9210 | Pomme de Terre River near Bolivar | 1952-67 | 225 | 9.7 | | 28 cfs | 60 cfs | 75 cfs | 90 cfs | 120 cfs |
| | | | | | 2 | 15 | 64 | 98 | 134 | 278 |
| | | | | | 5 | 10 | 50 | 70 | 100 | 225 |
| | | | | | 10 | 8 | 36 | 58 | 82 | 172 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance [b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9215.8 | South Grand River near Freeman | c | d | 8.0 | | 12 cfs | 24 cfs | 36 cfs | 48 cfs | 60 cfs |
| | | | | | 2 | 7 | 20 | 41 | 78 | 145 |
| | | | | | 5 | 5 | 14 | 31 | 59 | 113 |
| | | | | | 10 | 4 | 11 | 25 | 47 | 90 |
| 6-9215.9 | South Grand River at Archie | c | d | 8.0 | | 28 cfs | 56 cfs | 112 cfs | 140 cfs | 168 cfs |
| | | | | | 2 | 17 | 48 | 171 | 319 | - |
| | | | | | 5 | 13 | 34 | 129 | 246 | - |
| | | | | | 10 | 8 | 25 | 104 | 201 | 378 |
| 6-9216 | South Grand River at Urich | c | d | 8.0 | | 67 cfs | 134 cfs | 268 cfs | 335 cfs | 402 cfs |
| | | | | | 2 | 40 | 114 | 390 | 700 | - |
| | | | | | 5 | 32 | 74 | 282 | 537 | - |
| | | | | | 10 | 20 | 54 | 222 | 456 | 850 |
| 6-9217.2 | Big Creek at Blairstown | c | d | 8.0 | | 42 cfs | 83 cfs | 165 cfs | 210 cfs | 250 cfs |
| | | | | | 2 | 25 | 70 | 240 | 435 | - |
| | | | | | 5 | 20 | 45 | 174 | 332 | - |
| | | | | | 10 | 12 | 33 | 137 | 282 | 526 |
| 6-9217.8 | Deepwater Creek near Montrose | c | d | 8.0 | | 12 cfs | 23 cfs | 46 cfs | 58 cfs | 70 cfs |
| | | | | | 2 | 7 | 18 | 64 | 115 | - |
| | | | | | 5 | 5 | 13 | 46 | 86 | - |
| | | | | | 10 | 3 | 9 | 36 | 75 | 139 |
| 6-9220 | South Grand River near Browningtón | 1922-67 | 1,660[a] | 8.4 | | 60 cfs | 240 cfs | 420 cfs | 600 cfs | 800 cfs |
| | | | | | 2 | 45 | 250 | 510 | 840 | 1,800 |
| | | | | | 5 | 20 | 155 | 345 | 675 | 1,420 |
| | | | | | 10 | 15 | 120 | 300 | 570 | 1,100 |
| 6-9232 | Niangua River near Buffalo | c | d | 11.0 | | 20 cfs | 42 cfs | 84 cfs | 126 cfs | 148 cfs |
| | | | | | 2 | 10 | 23 | 78 | 180 | 311 |
| | | | | | 5 | 6 | 13 | 50 | 143 | 223 |
| | | | | | 10 | 2 | 8 | 29 | 103 | 175 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9252.5 | Little Niangua River near Macks Creek | c | d | 11.0 | | 28 cfs | 56 cfs | 112 cfs | 168 cfs | 195 cfs |
| | | | | | 2 | 17 | 34 | 112 | 274 | - |
| | | | | | 5 | 8 | 20 | 73 | 218 | 350 |
| | | | | | 10 | 6 | 14 | 45 | 157 | 274 |
| 6-9254.3 | Wet Glaize Creek near Brumley | c | d | 11.0 | | 12 cfs | 36 cfs | 60 cfs | 72 cfs | 84 cfs |
| | | | | | 2 | 6 | 24 | 68 | 105 | 188 |
| | | | | | 5 | 2 | 13 | 46 | 83 | 132 |
| | | | | | 10 | 1 | 8 | 37 | 60 | 103 |
| 6-9254.4 | Grandglaize Creek near Brumley | c | d | 11.0 | | 32 cfs | 96 cfs | 160 cfs | 192 cfs | 224 cfs |
| | | | | | 2 | 16 | 67 | 192 | 304 | 569 |
| | | | | | 5 | 10 | 38 | 128 | 243 | 390 |
| | | | | | 10 | 6 | 26 | 106 | 176 | 304 |
| 6-9263 | Tavern Creek near St. Elizabeth | c | d | 10.0 | | 30 cfs | 90 cfs | 150 cfs | 180 cfs | 210 cfs |
| | | | | | 2 | 18 | 69 | 196 | 327 | - |
| | | | | | 5 | 9 | 39 | 132 | 264 | 420 |
| | | | | | 10 | 6 | 30 | 114 | 195 | 333 |
| 6-9270 | Maries River at Westphalia | 1950-67 | 257 | 10.0 | | 40 cfs | 70 cfs | 100 cfs | 130 cfs | 160 cfs |
| | | | | | 2 | 18 | 60 | 115 | 200 | 435 |
| | | | | | 5 | 13 | 45 | 84 | 155 | 300 |
| | | | | | 10 | 9 | 32 | 64 | 118 | 220 |
| 6-9270.5 | Middle River near Mokane | c | d | 10.0 | | 6 cfs | 18 cfs | 30 cfs | 36 cfs | 42 cfs |
| | | | | | 2 | 4 | 16 | 46 | 80 | - |
| | | | | | 5 | 2 | 10 | 31 | 64 | - |
| | | | | | 10 | 1 | 7 | 29 | 52 | 80 |
| 6-9273 | Auxvasse Creek near Steedman | c | d | 10.0 | | 28 cfs | 90 cfs | 120 cfs | 150 cfs | 180 cfs |
| | | | | | 2 | 18 | 78 | 144 | 237 | 438 |
| | | | | | 5 | 12 | 51 | 93 | 165 | 336 |
| | | | | | 10 | 6 | 39 | 69 | 153 | 276 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency[b] (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9277 | Gasconade River near Nebo | c | d | 13.0 | | 130 cfs | 250 cfs | 320 cfs | 380 cfs | 450 cfs |
| | | | | | 2 | 50 | 190 | 280 | 410 | 600 |
| | | | | | 5 | 20 | 120 | 205 | 320 | 450 |
| | | | | | 10 | 12 | 58 | 155 | 230 | 370 |
| 6-9277.5 | Osage Fork near Orla | c | d | 12.0 | | 60 cfs | 90 cfs | 120 cfs | 180 cfs | 210 cfs |
| | | | | | 2 | 30 | 54 | 102 | 219 | 333 |
| | | | | | 5 | 15 | 27 | 66 | 177 | 258 |
| | | | | | 10 | 9 | 18 | 36 | 126 | 204 |
| 6-9278 | Osage Fork at Drynob | c | d | 12.0 | | 80 cfs | 162 cfs | 202 cfs | 240 cfs | 283 cfs |
| | | | | | 2 | 40 | 141 | 206 | 299 | 460 |
| | | | | | 5 | 20 | 89 | 141 | 242 | 355 |
| | | | | | 10 | 12 | 48 | 109 | 174 | 278 |
| 6-9280 | Gasconade River near Hazelgreen | 1929-67 | 1,250[a] | 10.4 | | 120 cfs | 300 cfs | 480 cfs | 660 cfs | 850 cfs |
| | | | | | 2 | 40 | 220 | 480 | 900 | 2,100 |
| | | | | | 5 | 25 | 120 | 300 | 630 | 1,500 |
| | | | | | 10 | 20 | 80 | 240 | 540 | 1,220 |
| 6-9284.5 | Roubidoux Creek at Waynesville | c | d | 12.0 | | 58 cfs | 87 cfs | 116 cfs | 174 cfs | 203 cfs |
| | | | | | 2 | 30 | 55 | 102 | 218 | 342 |
| | | | | | 5 | 15 | 26 | 64 | 177 | 261 |
| | | | | | 10 | 9 | 17 | 38 | 128 | 206 |
| 6-9285 | Gasconade River near Waynesville | 1916-67 | 1,680[a] | 11.1 | | 180 cfs | 450 cfs | 675 cfs | 930 cfs | 1,200 cfs |
| | | | | | 2 | 25 | 300 | 600 | 1,160 | 3,000 |
| | | | | | 5 | 20 | 160 | 390 | 900 | 2,200 |
| | | | | | 10 | 15 | 120 | 300 | 700 | 1,600 |
| 6-9289 | Big Piney River near Houston | c | d | 14.0 | | 75 cfs | 95 cfs | 114 cfs | 133 cfs | 152 cfs |
| | | | | | 2 | 53 | 78 | 114 | 167 | - |
| | | | | | 5 | 32 | 57 | 89 | 122 | 179 |
| | | | | | 10 | 15 | 42 | 63 | 104 | 150 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9300 | Big Piney River near Big Piney | 1923-67 | 560[a] | 12.8 | | 150 cfs | 230 cfs | 310 cfs | 400 cfs | 500 cfs |
| | | | | | 2 | 35 | 135 | 295 | 580 | 1,550 |
| | | | | | 5 | 15 | 95 | 200 | 390 | 1,100 |
| | | | | | 10 | 10 | 60 | 150 | 310 | 740 |
| 6-9301 | Spring Creek at Spring Creek | c | d | 12.0 | | 22 cfs | 32 cfs | 54 cfs | 65 cfs | 76 cfs |
| | | | | | 2 | 11 | 19 | 53 | 77 | 116 |
| | | | | | 5 | 5 | 10 | 38 | 62 | 91 |
| | | | | | 10 | 3 | 5 | 28 | 44 | 71 |
| 6-9309 | Little Piney Creek at Yancy Mills | c | d | 12.0 | | 14 cfs | 21 cfs | 35 cfs | 42 cfs | 50 cfs |
| | | | | | 2 | 7 | 13 | 35 | 51 | 78 |
| | | | | | 5 | 4 | 6 | 25 | 41 | 60 |
| | | | | | 10 | 2 | 4 | 18 | 29 | 48 |
| 6-9315 | Little Beaver Creek near Rolla | 1949-67 | 6.41 | 10.8 | | 1 cfs | 3 cfs | 4.5 cfs | | |
| | | | | | 2 | 0.5 | 3.8 | 13 | | |
| | | | | | 5 | 0.4 | 2.8 | 10 | | |
| | | | | | 10 | 0.2 | 2.1 | 6.8 | | |
| 6-9320 | Little Piney Creek at Newburg | 1930-67 | 200[a] | 10.2 | | 47 cfs | 75 cfs | 100 cfs | 120 cfs | 132 cfs |
| | | | | | 2 | 8 | 40 | 100 | 185 | 325 |
| | | | | | 5 | 4 | 25 | 75 | 140 | 230 |
| | | | | | 10 | 3 | 18 | 55 | 110 | 170 |
| 6-9335 | Gasconade River at Jerome | 1925-67 | 2,840[a] | 11.8 | | 540 cfs | 900 cfs | 1,300 cfs | 1,800 cfs | 2,200 cfs |
| | | | | | 2 | 80 | 520 | 1,120 | 2,400 | 5,200 |
| | | | | | 5 | 40 | 320 | 760 | 1,880 | 3,900 |
| | | | | | 10 | 22 | 140 | 500 | 1,400 | 2,800 |
| 6-9340 | Gasconade River near Rich Fountain | 1923-59 | 3,180[a] | 12.5 | | 650 cfs | 1,250 cfs | 1,800 cfs | 2,200 cfs | 2,600 cfs |
| | | | | | 2 | 80 | 900 | 2,000 | 3,100 | 6,000 |
| | | | | | 5 | 60 | 520 | 1,300 | 2,400 | 4,300 |
| | | | | | 10 | 42 | 480 | 1,150 | 1,950 | 3,350 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency (%) [b] | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6-9355 | Loutre River at Mineola | 1949-65 | 202 | 6.5 | | 8 cfs | 30 cfs | 50 cfs | 70 cfs | 90 cfs |
| | | | | | 2 | 5 | 25 | 50 | 100 | 255 |
| | | | | | 5 | 3 | 15 | 30 | 78 | 185 |
| | | | | | 10 | 2 | 10 | 25 | 62 | 145 |
| 6-9357.3 | St. Johns Creek near Washington | c | d | 10.0 | | 8 cfs | 16 cfs | 32 cfs | 48 cfs | 56 cfs |
| | | | | | 2 | 5 | 10 | 35 | 98 | - |
| | | | | | 5 | 3 | 6 | 22 | 78 | 126 |
| | | | | | 10 | 2 | 5 | 16 | 60 | 98 |
| 6-9357.5 | Femme Osage Creek near Weldon Spring | c | d | 10.0 | | 6 cfs | 18 cfs | 24 cfs | 36 cfs | 42 cfs |
| | | | | | 2 | 4 | 14 | 26 | 71 | - |
| | | | | | 5 | 3 | 8 | 17 | 57 | 91 |
| | | | | | 10 | 1 | 7 | 11 | 44 | 72 |
| 7-0104 | Meramec River near St. James | c | d | 12.0 | | 30 cfs | 90 cfs | 120 cfs | 180 cfs | 210 cfs |
| | | | | | 2 | 15 | 60 | 111 | 250 | 426 |
| | | | | | 5 | 6 | 30 | 72 | 198 | 309 |
| | | | | | 10 | 3 | 21 | 42 | 144 | 273 |
| 7-0115 | Green Acre Branch near Rolla | 1948-67 | 0.62 | 8.5 | | 0.1 cfs | 0.2 cfs | 0.3 cfs | | |
| | | | | | 2 | 0.05 | 0.22 | 0.75 | | |
| | | | | | 5 | 0.04 | 0.18 | 0.54 | | |
| | | | | | 10 | 0.02 | 0.14 | 0.44 | | |
| 7-0130 | Meramec River near Steelville | 1923-67 | 781 | 9.7 | | 175 cfs | 250 cfs | 325 cfs | 400 cfs | 500 cfs |
| | | | | | 2 | 30 | 90 | 200 | 410 | 1,350 |
| | | | | | 5 | 20 | 60 | 150 | 320 | 870 |
| | | | | | 10 | 16 | 50 | 120 | 240 | 620 |
| 7-0131 | Huzzah Creek at Dillard | c | d | 13.0 | | 37 cfs | 46 cfs | 55 cfs | 64 cfs | 74 cfs |
| | | | | | 2 | 10 | 22 | 36 | 58 | 116 |
| | | | | | 5 | 8 | 18 | 29 | 48 | 78 |
| | | | | | 10 | 6 | 14 | 23 | 40 | 61 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance [b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0140 | Huzzah Creek near Steelville | c | d | 12.0 | | 95 cfs | 120 cfs | 144 cfs | 168 cfs | |
| | | | | | 2 | 41 | 79 | 130 | 218 | |
| | | | | | 5 | 34 | 62 | 106 | 178 | |
| | | | | | 10 | 22 | 48 | 84 | 144 | |
| 7-0142 | Courtois Creek at Berryman | c | d | 12.0 | | 69 cfs | 86 cfs | 104 cfs | 121 cfs | 138 cfs |
| | | | | | 2 | 26 | 54 | 86 | 142 | - |
| | | | | | 5 | 22 | 41 | 69 | 116 | 192 |
| | | | | | 10 | 14 | 33 | 55 | 95 | 144 |
| 7-0145 | Meramec River near Sullivan | 1944-67 | 1,475 | 10.5 | | 350 cfs | 550 cfs | 750 cfs | 950 cfs | 1,100 cfs |
| | | | | | 2 | 80 | 410 | 810 | 1,400 | 2,600 |
| | | | | | 5 | 40 | 230 | 520 | 1,100 | 2,100 |
| | | | | | 10 | 30 | 180 | 440 | 880 | 1,480 |
| 7-0150 | Bourbeuse River near St. James | 1948-67 | 21.3 | 10.0 | | 3 cfs | 6 cfs | 9 cfs | 12 cfs | 14 cfs |
| | | | | | 2 | 1 | 4 | 10 | 23 | - |
| | | | | | 5 | 0.9 | 3 | 8 | 18 | 38 |
| | | | | | 10 | 0.8 | 2 | 6 | 14 | 28 |
| 7-0155 | Lanes Fork near Rolla | 1953-67 | 0.225 | 16.7 | | 0.1 cfs | 0.15 cfs | | | |
| | | | | | 2 | 0.065 | - | | | |
| | | | | | 5 | 0.045 | 0.29 | | | |
| | | | | | 10 | 0.03 | 0.19 | | | |
| 7-0157.5 | Bourbeuse River near Owensville | c | d | 11.0 | | 37 cfs | 111 cfs | 148 cfs | 222 cfs | 260 cfs |
| | | | | | 2 | 18 | 81 | 152 | 385 | - |
| | | | | | 5 | 14 | 48 | 96 | 307 | 492 |
| | | | | | 10 | 7 | 33 | 63 | 222 | 388 |
| 7-0157.6 | Dry Fork Creek near Owensville | c | d | 10.0 | | 10 cfs | 20 cfs | 42 cfs | 63 cfs | 74 cfs |
| | | | | | 2 | 6 | 14 | 44 | 120 | - |
| | | | | | 5 | 4 | 8 | 30 | 94 | 150 |
| | | | | | 10 | 2 | 5 | 20 | 70 | 120 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency [b] (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0165 | Bourbeuse River at Union | 1922-67 | 808 | 10.3 | | 105 cfs | 250 cfs | 350 cfs | 450 cfs | 550 cfs |
| | | | | | 2 | 30 | 220 | 400 | 710 | 1,550 |
| | | | | | 5 | 22 | 125 | 280 | 540 | 1,100 |
| | | | | | 10 | 20 | 100 | 225 | 440 | 800 |
| 7-0170 | Meramec River at Robertsville | 1941-51 | 2,673 | 13.7 | | 540 cfs | 800 cfs | 1,200 cfs | 1,600 cfs | 2,200 cfs |
| | | | | | 2 | 110 | 350 | 750 | 1,350 | 2,600 |
| | | | | | 5 | 90 | 200 | 480 | 900 | 2,100 |
| | | | | | 10 | 50 | 100 | 200 | 500 | 1,500 |
| 7-0176 | Big River near Bonne Terre | c | d | 13.0 | | 85 cfs | 130 cfs | 215 cfs | 300 cfs | 344 cfs |
| | | | | | 2 | 39 | 73 | 198 | 427 | - |
| | | | | | 5 | 17 | 34 | 142 | 331 | 529 |
| | | | | | 10 | 9 | 22 | 108 | 267 | 404 |
| 7-0178 | Mineral Fork near Potosi | c | d | 12.0 | | 32 cfs | 64 cfs | 80 cfs | 96 cfs | 128 cfs |
| | | | | | 2 | 18 | 58 | 83 | 123 | - |
| | | | | | 5 | 9 | 35 | 58 | 99 | 248 |
| | | | | | 10 | 5 | 21 | 45 | 72 | 186 |
| 7-0180 | Big River near DeSoto | 1950-67 | 718 | 11.9 | | 195 cfs | 300 cfs | 390 cfs | 500 cfs | 630 cfs |
| | | | | | 2 | 70 | 260 | 480 | 830 | 2,000 |
| | | | | | 5 | 45 | 180 | 320 | 610 | 1,400 |
| | | | | | 10 | 35 | 120 | 260 | 510 | 1,040 |
| 7-0181 | Big River near Richwoods | c | d | 12.0 | | 222 cfs | 300 cfs | 370 cfs | 444 cfs | 518 cfs |
| | | | | | 2 | 148 | 275 | 408 | 615 | 1,050 |
| | | | | | 5 | 74 | 190 | 282 | 489 | 763 |
| | | | | | 10 | 52 | 134 | 222 | 356 | 586 |
| 7-0185 | Big River at Byrnesville | 1924-67 | 917 | 12.1 | | 225 cfs | 350 cfs | 500 cfs | 600 cfs | 730 cfs |
| | | | | | 2 | 75 | 220 | 460 | 750 | 1,550 |
| | | | | | 5 | 50 | 160 | 375 | 575 | 1,180 |
| | | | | | 10 | 35 | 100 | 280 | 460 | 880 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency[b] (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0190 | Meramec River near Eureka | 1922-67 | 3,788 | 10.6 | | 750 cfs | 1,200 cfs | 1,600 cfs | 2,100 cfs | 2,600 cfs |
| | | | | | 2 | 160 | 650 | 1,300 | 2,500 | 5,600 |
| | | | | | 5 | 80 | 500 | 1,100 | 2,000 | 4,200 |
| | | | | | 10 | 75 | 320 | 700 | 1,500 | 3,100 |
| 7-0190.5 | Joachim Creek at Hematite | c | 95.0 | 12.0 | | 19 cfs | 38 cfs | 58 cfs | 66 cfs | 76 cfs |
| | | | | | 2 | 10 | 33 | 70 | 108 | - |
| | | | | | 5 | 4 | 21 | 57 | 84 | 140 |
| | | | | | 10 | 3 | 12 | 41 | 66 | 104 |
| 7-0206 | Apple Creek at Appleton | c | d | 16.0 | | 28 cfs | 35 cfs | 42 cfs | 49 cfs | 56 cfs |
| | | | | | 2 | 13 | 20 | 34 | 48 | - |
| | | | | | 5 | 8 | 15 | 24 | 30 | 43 |
| | | | | | 10 | 4 | 11 | 18 | 28 | 39 |
| 7-0210 | Castor River at Zalma | 1922-67 | 423 | 16.0 | | 150 cfs | 225 cfs | 300 cfs | 375 cfs | 450 cfs |
| | | | | | 2 | 55 | 155 | 300 | 500 | 980 |
| | | | | | 5 | 35 | 100 | 205 | 375 | 710 |
| | | | | | 10 | 32 | 85 | 180 | 310 | 545 |
| 7-0211.5 | Crooked Creek at Lutesville | c | d | 17.0 | | 28 cfs | 35 cfs | 42 cfs | 49 cfs | 56 cfs |
| | | | | | 2 | 11 | 18 | 32 | 46 | - |
| | | | | | 5 | 6 | 14 | 22 | 28 | 39 |
| | | | | | 10 | 3 | 10 | 17 | 25 | 34 |
| 7-0214 | Whitewater River at Millersville | c | d | 17.0 | | 40 cfs | 50 cfs | 60 cfs | 70 cfs | 80 cfs |
| | | | | | 2 | 16 | 27 | 46 | 66 | - |
| | | | | | 5 | 9 | 21 | 32 | 42 | 58 |
| | | | | | 10 | 4 | 14 | 25 | 36 | 51 |
| 7-0216 | Whitewater River at Whitewater | c | d | 17.0 | | 110 cfs | 135 cfs | 160 cfs | 190 cfs | 215 cfs |
| | | | | | 2 | 40 | 70 | 120 | 172 | - |
| | | | | | 5 | 24 | 54 | 80 | 105 | 148 |
| | | | | | 10 | 8 | 38 | 65 | 95 | 135 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency[b] (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0340 | St. Francis River near Roselle | c | d | 14.0 | | 95 cfs | 120 cfs | 144 cfs | 167 cfs | 190 cfs |
| | | | | | 2 | 62 | 93 | 141 | 203 | - |
| | | | | | 5 | 38 | 69 | 108 | 144 | 210 |
| | | | | | 10 | 19 | 50 | 76 | 127 | 182 |
| 7-0350 | Little St. Francis River at Fredericktown | c | d | 15.0 | | 36 cfs | 45 cfs | 54 cfs | 63 cfs | 72 cfs |
| | | | | | 2 | 20 | 32 | 49 | 71 | - |
| | | | | | 5 | 13 | 24 | 36 | 48 | 67 |
| | | | | | 10 | 5 | 16 | 26 | 43 | 61 |
| 7-0370 | Big Creek at Des Arc | c | d | 16.0 | | 40 cfs | 50 cfs | 60 cfs | 70 cfs | 80 cfs |
| | | | | | 2 | 20 | 32 | 51 | 74 | - |
| | | | | | 5 | 12 | 24 | 37 | 49 | 69 |
| | | | | | 10 | 5 | 17 | 28 | 44 | 62 |
| 7-0375 | St. Francis River near Patterson | 1922-67 | 956 | 15.3 | | 350 cfs | 500 cfs | 650 cfs | 800 cfs | 1,000 cfs |
| | | | | | 2 | 160 | 410 | 700 | 1,100 | 2,220 |
| | | | | | 5 | 120 | 300 | 520 | 820 | 1,700 |
| | | | | | 10 | 110 | 240 | 410 | 700 | 1,320 |
| 7-0507 | James River near Springfield | 1956-67 | 246 | 12.0 | | 50 cfs | 75 cfs | 125 cfs | 170 cfs | 195 cfs |
| | | | | | 2 | 38 | 66 | 190 | 424 | - |
| | | | | | 5 | 15 | 33 | 130 | 320 | 540 |
| | | | | | 10 | 11 | 22 | 100 | 250 | 400 |
| 7-0515 | James River below Battlefield | c | d | 12.0 | | 66 cfs | 98 cfs | 164 cfs | 195 cfs | 230 cfs |
| | | | | | 2 | 50 | 87 | 245 | 360 | 540 |
| | | | | | 5 | 24 | 45 | 172 | 290 | 420 |
| | | | | | 10 | 15 | 30 | 128 | 210 | 330 |
| 7-0523 | Finley Creek near Ozark | c | d | 13.0 | | 44 cfs | 66 cfs | 110 cfs | 154 cfs | 176 cfs |
| | | | | | 2 | 30 | 56 | 150 | 325 | - |
| | | | | | 5 | 14 | 28 | 110 | 250 | 400 |
| | | | | | 10 | 6 | 16 | 82 | 200 | 310 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency[b] (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0525 | James River at Galena | 1923-67 | 987 | 13.1 | | 120 cfs | 300 cfs | 500 cfs | 650 cfs | 820 cfs |
| | | | | | 2 | 30 | 250 | 560 | 920 | 2,250 |
| | | | | | 5 | 12 | 100 | 350 | 680 | 1,550 |
| | | | | | 10 | 10 | 80 | 260 | 540 | 1,120 |
| 7-0528 | Flat Creek at Jenkins | c | d | 12.0 | | 66 cfs | 84 cfs | 105 cfs | 126 cfs | 147 cfs |
| | | | | | 2 | 40 | 73 | 107 | 158 | 248 |
| | | | | | 5 | 16 | 46 | 76 | 128 | 189 |
| | | | | | 10 | 13 | 27 | 59 | 92 | 149 |
| 7-0538 | Bull Creek at Walnut Shade | c | d | 13.0 | | 60 cfs | 80 cfs | 100 cfs | 140 cfs | 160 cfs |
| | | | | | 2 | 30 | 60 | 86 | 184 | - |
| | | | | | 5 | 12 | 38 | 64 | 138 | 210 |
| | | | | | 10 | 8 | 18 | 46 | 116 | 170 |
| 7-0539.8 | Swan Creek at Forsyth | c | d | 13.0 | | 57 cfs | 76 cfs | 95 cfs | 133 cfs | 152 cfs |
| | | | | | 2 | 27 | 55 | 80 | 171 | - |
| | | | | | 5 | 11 | 34 | 59 | 127 | 190 |
| | | | | | 10 | 6 | 17 | 44 | 108 | 158 |
| 7-0541.5 | Beaver Creek at Kissee Mills | c | d | 14.0 | | 117 cfs | 156 cfs | 234 cfs | 273 cfs | 312 cfs |
| | | | | | 2 | 55 | 109 | 238 | 343 | - |
| | | | | | 5 | 25 | 70 | 183 | 254 | 374 |
| | | | | | 10 | 12 | 35 | 133 | 218 | 316 |
| 7-0574 | North Fork River at Twin Bridges | c | d | 15.0 | | 95 cfs | 115 cfs | 133 cfs | 170 cfs | 190 cfs |
| | | | | | 2 | 25 | 47 | 78 | 200 | 314 |
| | | | | | 5 | 21 | 38 | 68 | 162 | 260 |
| | | | | | 10 | 15 | 27 | 49 | 125 | 188 |
| 7-0574.5 | Spring Creek at Twin Bridges | c | d | 15.0 | | 48 cfs | 60 cfs | 72 cfs | 84 cfs | 96 cfs |
| | | | | | 2 | 28 | 42 | 53 | 94 | - |
| | | | | | 5 | 17 | 31 | 48 | 65 | 91 |
| | | | | | 10 | 7 | 22 | 36 | 56 | 80 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0575 | North Fork River near Tecumseh | 1945-67 | 561 | 16.5 | | 300 cfs | 375 cfs | 450 cfs | 525 cfs | 640 cfs |
| | | | | | 2 | 30 | 110 | 230 | 430 | 1,500 |
| | | | | | 5 | 20 | 75 | 180 | 350 | 930 |
| | | | | | 10 | 15 | 60 | 140 | 275 | 670 |
| 7-0580 | Bryant Creek near Tecumseh | 1946-67 | 570 | 12.1 | | 150 cfs | 225 cfs | 300 cfs | 375 cfs | 450 cfs |
| | | | | | 2 | 20 | 125 | 250 | 490 | 1,250 |
| | | | | | 5 | 15 | 85 | 200 | 370 | 780 |
| | | | | | 10 | 10 | 45 | 130 | 275 | 590 |
| 7-0611.5 | West Fork Black River at Centerville | c | d | 14.0 | | 54 cfs | 68 cfs | 81 cfs | 95 cfs | 108 cfs |
| | | | | | 2 | 34 | 50 | 77 | 111 | - |
| | | | | | 5 | 20 | 38 | 58 | 77 | 111 |
| | | | | | 10 | 9 | 27 | 42 | 68 | 97 |
| 7-0611.7 | Middle Fork Black River near Lesterville | c | d | 14.0 | | 64 cfs | 80 cfs | 96 cfs | 112 cfs | 128 cfs |
| | | | | | 2 | 40 | 61 | 91 | 133 | - |
| | | | | | 5 | 24 | 45 | 70 | 93 | 133 |
| | | | | | 10 | 11 | 32 | 50 | 82 | 117 |
| 7-0613 | East Fork Black River at Lesterville | c | d | 15.0 | | 38 cfs | 47 cfs | 57 cfs | 66 cfs | 76 cfs |
| | | | | | 2 | 22 | 34 | 52 | 76 | - |
| | | | | | 5 | 13 | 26 | 39 | 52 | 74 |
| | | | | | 10 | 6 | 18 | 28 | 45 | 65 |
| 7-0615 | Black River near Annapolis | 1940-67 | 484 | 15.2 | | 250 cfs | 350 cfs | 400 cfs | 450 cfs | 525 cfs |
| | | | | | 2 | 90 | 240 | 380 | 570 | 1,300 |
| | | | | | 5 | 70 | 210 | 310 | 440 | 950 |
| | | | | | 10 | 50 | 130 | 220 | 340 | 630 |
| 7-0635 | Cane Creek at Harviel | c | 188 | 17.0 | | 75 cfs | 95 cfs | 112 cfs | 130 cfs | 150 cfs |
| | | | | | 2 | 28 | 50 | 82 | 120 | - |
| | | | | | 5 | 17 | 38 | 56 | 72 | 102 |
| | | | | | 10 | 5.5 | 26 | 45 | 65 | 94 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance [b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0645 | Big Creek near Yukon | 1950-67 | 8.36 | 11.0 | | 2 cfs | 3 cfs | 4 cfs | 5 cfs | 6 cfs |
| | | | | | 2 | 1.1 | 2.4 | 4.4 | 7.6 | 16 |
| | | | | | 5 | 0.5 | 1.6 | 3.2 | 5.8 | 11 |
| | | | | | 10 | 0.3 | 1.1 | 2.4 | 4.5 | 8.2 |
| 7-0648 | Sinking Creek near Round Spring | c | d | 14.0 | | 56 cfs | 70 cfs | 84 cfs | 98 cfs | 112 cfs |
| | | | | | 2 | 34 | 52 | 78 | 113 | - |
| | | | | | 5 | 21 | 39 | 59 | 80 | 113 |
| | | | | | 10 | 10 | 27 | 43 | 70 | 99 |
| 7-0649.5 | Current River at Round Spring [e] | c | d | 14.0 | | 230 cfs | 285 cfs | 400 cfs | 456 cfs | 515 cfs |
| | | | | | 2 | 28 | 85 | 256 | 450 | 680 |
| | | | | | 5 | 23 | 74 | 217 | 336 | 552 |
| | | | | | 10 | 11 | 51 | 165 | 268 | 450 |
| 7-0652 | Jacks Fork near Mountain View [e] | c | d | 15.0 | | 68 cfs | 85 cfs | 102 cfs | 120 cfs | 136 cfs |
| | | | | | 2 | 40 | 60 | 75 | 133 | - |
| | | | | | 5 | 24 | 44 | 68 | 92 | 129 |
| | | | | | 10 | 10 | 31 | 51 | 80 | 109 |
| 7-0660 | Jacks Fork at Eminence [e] | 1923-67 | 398 | 14.7 | | 150 cfs | 250 cfs | 300 cfs | 350 cfs | 390 cfs |
| | | | | | 2 | 20 | 150 | 290 | 510 | 900 |
| | | | | | 5 | 18 | 120 | 230 | 400 | 720 |
| | | | | | 10 | 14 | 100 | 185 | 315 | 510 |
| 7-0665 | Current River near Eminence [e] | 1923-67 | 1,272 | 14.7 | | 570 cfs | 900 cfs | 1,050 cfs | 1,200 cfs | 1,320 cfs |
| | | | | | 2 | 75 | 550 | 975 | 1,680 | 3,500 |
| | | | | | 5 | 50 | 450 | 800 | 1,320 | 2,220 |
| | | | | | 10 | 30 | 325 | 620 | 1,100 | 1,820 |
| 7-0670 | Current River at Van Buren [e] | 1923-67 | 1,667 | 14.9 | | 800 cfs | 1,100 cfs | 1,300 cfs | 1,500 cfs | 1,700 cfs |
| | | | | | 2 | 120 | 450 | 840 | 1,480 | 3,100 |
| | | | | | 5 | 90 | 390 | 750 | 1,300 | 2,800 |
| | | | | | 10 | 60 | 320 | 620 | 1,100 | 2,000 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0680 | Current River at Doniphan[e] | 1923-67 | 2,038 | 17.8 | | 1,330 cfs | 1,750 cfs | 2,000 cfs | 2,250 cfs | 2,500 cfs |
| | | | | | 2 | 140 | 850 | 1,500 | 2,500 | 5,000 |
| | | | | | 5 | 100 | 600 | 1,150 | 2,000 | 3,900 |
| | | | | | 10 | 90 | 500 | 1,000 | 1,650 | 2,900 |
| 7-0685 | Little Black River near Fairdealing | c | 187 | 18.0 | | 75 cfs | 95 cfs | 110 cfs | 130 cfs | 150 cfs |
| | | | | | 2 | 34 | 56 | 90 | 133 | - |
| | | | | | 5 | 22 | 43 | 65 | 86 | 120 |
| | | | | | 10 | 6 | 30 | 50 | 75 | 105 |
| 7-0691.5 | Spring River at Thayer | c | d | 16.0 | | 76 cfs | 95 cfs | 114 cfs | 133 cfs | 152 cfs |
| | | | | | 2 | 32 | 53 | 89 | 129 | - |
| | | | | | 5 | 19 | 42 | 63 | 82 | 114 |
| | | | | | 10 | 8 | 28 | 49 | 72 | 103 |
| 7-0705 | Eleven Point River near Thomasville[e] | 1951-67 | 361 | 3.1 | | 25 cfs | 40 cfs | 50 cfs | 60 cfs | 75 cfs |
| | | | | | 2 | 12 | 38 | 64 | 98 | 208 |
| | | | | | 5 | 8 | 30 | 50 | 78 | 162 |
| | | | | | 10 | 6 | 20 | 38 | 60 | 115 |
| 7-0715 | Eleven Point River near Bardley[e] | 1922-67 | 793 | 12.5 | | 310 cfs | 400 cfs | 500 cfs | 600 cfs | 650 cfs |
| | | | | | 2 | 55 | 180 | 390 | 800 | 1,320 |
| | | | | | 5 | 40 | 145 | 320 | 640 | 960 |
| | | | | | 10 | 35 | 100 | 240 | 480 | 680 |
| 7-1856.5 | Spring River near Stotts City | c | d | 10.0 | | 70 cfs | 88 cfs | 110 cfs | 132 cfs | 154 cfs |
| | | | | | 2 | 48 | 90 | 139 | 230 | - |
| | | | | | 5 | 27 | 57 | 92 | 183 | 293 |
| | | | | | 10 | 20 | 37 | 79 | 132 | 230 |
| 7-1857 | Spring River at Larussell | 1957-67 | 306 | 11.0 | | 92 cfs | 122 cfs | 153 cfs | 185 cfs | 215 cfs |
| | | | | | 2 | 73 | 138 | 223 | 386 | - |
| | | | | | 5 | 46 | 86 | 147 | 310 | 483 |
| | | | | | 10 | 37 | 61 | 132 | 235 | 385 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-1858 | Spring River near Neck City | c | d | 10.0 | | 100 cfs | 150 cfs | 200 cfs | 300 cfs | 350 cfs |
| | | | | | 2 | 70 | 125 | 225 | 635 | - |
| | | | | | 5 | 40 | 75 | 145 | 500 | - |
| | | | | | 10 | 30 | 55 | 100 | 390 | 630 |
| 7-1858.5 | North Fork Spring River at Lamar | c | d | 10.0 | | 10 cfs | 25 cfs | 48 cfs | 60 cfs | 72 cfs |
| | | | | | 2 | 7 | 18 | 58 | 95 | 175 |
| | | | | | 5 | 4 | 11 | 37 | 66 | 134 |
| | | | | | 10 | 2 | 7 | 28 | 61 | 110 |
| 7-1860 | Spring River near Waco | 1926-67 | 1,164 | 9.4 | | 60 cfs | 200 cfs | 350 cfs | 500 cfs | 650 cfs |
| | | | | | 2 | 15 | 160 | 410 | 810 | 1,500 |
| | | | | | 5 | 8 | 100 | 270 | 585 | 1,250 |
| | | | | | 10 | 5 | 45 | 210 | 490 | 970 |
| 7-1861 | Center Creek near Sarcoxie | c | d | 10.0 | | 27 cfs | 35 cfs | 45 cfs | 54 cfs | 63 cfs |
| | | | | | 2 | 21 | 38 | 59 | 98 | - |
| | | | | | 5 | 10 | 24 | 40 | 79 | 126 |
| | | | | | 10 | 9 | 16 | 34 | 58 | 100 |
| 7-1862 | Center Creek near Fidelity | c | d | 10.0 | | 42 cfs | 63 cfs | 105 cfs | 126 cfs | |
| | | | | | 2 | 27 | 48 | 141 | 237 | |
| | | | | | 5 | 15 | 29 | 95 | 189 | |
| | | | | | 10 | 11 | 21 | 82 | 141 | |
| 7-1864 | Center Creek near Carterville | 1962-68 | 232 | 10.0 | | 46 cfs | 70 cfs | 93 cfs | 115 cfs | |
| | | | | | 2 | 30 | 56 | 100 | 158 | |
| | | | | | 5 | 19 | 32 | 65 | 107 | |
| | | | | | 10 | 14 | 23 | 44 | 93 | |
| 7-1864.2 | Center Creek near Webb City | c | d | 10.0 | | 75 cfs | 100 cfs | 125 cfs | 150 cfs | 175 cfs |
| | | | | | 2 | 60 | 108 | 173 | 297 | - |
| | | | | | 5 | 36 | 70 | 118 | 238 | 380 |
| | | | | | 10 | 28 | 47 | 105 | 183 | 300 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance[b] of Deficiency (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-1864.6 | Center Creek near Carl Junction | c | d | 10.0 | | 82 cfs | 110 cfs | 138 cfs | 165 cfs | 182 cfs |
| | | | | | 2 | 66 | 121 | 193 | 338 | - |
| | | | | | 5 | 40 | 77 | 132 | 270 | 429 |
| | | | | | 10 | 30 | 55 | 118 | 206 | 338 |
| 7-1867 | Shoal Creek near Fairview | c | d | 11.0 | | 23 cfs | 30 cfs | 38 cfs | 45 cfs | 52 cfs |
| | | | | | 2 | 16 | 30 | 46 | 74 | - |
| | | | | | 5 | 8 | 20 | 31 | 59 | 94 |
| | | | | | 10 | 7 | 12 | 25 | 42 | 74 |
| 7-1868.8 | Shoal Creek at Ritchey | c | d | 11.0 | | 76 cfs | 95 cfs | 114 cfs | 133 cfs | |
| | | | | | 2 | 78 | 120 | 198 | - | |
| | | | | | 5 | 49 | 80 | 158 | 253 | |
| | | | | | 10 | 32 | 68 | 114 | 200 | |
| 7-1868.9 | Shoal Creek at Neosho | c | d | 11.0 | | 100 cfs | 136 cfs | 170 cfs | 204 cfs | 240 cfs |
| | | | | | 2 | 78 | 139 | 218 | 360 | - |
| | | | | | 5 | 44 | 92 | 146 | 289 | 466 |
| | | | | | 10 | 30 | 58 | 126 | 211 | 367 |
| 7-1870 | Shoal Creek above Joplin | 1942-67 | 427 | 11.5 | | 78 cfs | 150 cfs | 210 cfs | 270 cfs | 330 cfs |
| | | | | | 2 | 22 | 135 | 260 | 450 | 1,040 |
| | | | | | 5 | 10 | 68 | 180 | 330 | 690 |
| | | | | | 10 | 5 | 40 | 130 | 265 | 525 |
| 7-1888.5 | Elk River at Pineville | c | d | 11.0 | | 49 cfs | 148 cfs | 245 cfs | 294 cfs | 343 cfs |
| | | | | | 2 | 29 | 108 | 299 | 480 | - |
| | | | | | 5 | 15 | 59 | 201 | 382 | 613 |
| | | | | | 10 | 10 | 44 | 167 | 275 | 480 |
| 7-1888.7 | Indian Creek at Anderson | c | d | 11.0 | | 60 cfs | 80 cfs | 100 cfs | 120 cfs | 140 cfs |
| | | | | | 2 | 44 | 80 | 124 | 200 | - |
| | | | | | 5 | 22 | 52 | 84 | 160 | 258 |
| | | | | | 10 | 18 | 32 | 70 | 116 | 202 |

| Station Number (Plate 1) | Station Name | Record Used In Analysis | Drainage Area (Sq. Mi.) | Average Annual Run-off (Inches) | Chance of Deficiency[b] (%) | Amount of Storage (in Thousands of Acre-Feet) for Draft Rate (in CFS) Indicated in Column Headings (Not Corrected for Reservoir Evaporation, Sedimentation, and Seepage) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 135 cfs | 300 cfs | 400 cfs | 550 cfs | 680 cfs |
| 7-1890 | Elk River near Tiff City | 1941-67 | 872 | 11.6 | | | | | | |
| | | | | | 2 | 60 | 250 | 380 | 700 | 1,600 |
| | | | | | 5 | 35 | 110 | 260 | 560 | 1,100 |
| | | | | | 10 | 18 | 65 | 180 | 450 | 850 |

a Approximately

b Percent of years in which a storage reservoir of indicated capacity would become empty.

c Carryover storage requirements for this partial-record site were computed from regional curves. Within-year storage requirements for the site are shown in Water Resources Report No. 22.

d Rough drainage area (accuracy ± 10%) is available but not shown. A subsequent report will contain planimetered drainage area data for the State.

e Current River and Jacks Fork are included in the Ozark National Scenic Riverways. The Eleven Point River is included in the National Wild Rivers Act. Impoundments will not be permitted on these streams under the present laws.

# GAGING STATIONS, AVERAGE ANNUAL RUNOFF, DRAFT-STORAGE REGIONS, AND AREAS OF ANOMALOUS RUNOFF IN MISSOURI

## EXPLANATION

- ● PARTIAL - RECORD STATION
- ▲ CONTINUOUS - RECORD STATION
- 6-3472 DOWNSTREAM ORDER NUMBER
- 8.0—8.0 ISOPLETHS OF ANNUAL RUNOFF, IN INCHES
- PART OF STREAM BASIN WHERE REGION B CURVES ARE TO BE USED. IN ALL OTHER AREAS WHERE RUNOFF PATTERNS CAN BE ESTIMATED, REGION A CURVES ARE TO BE USED.
- (3.1) AREAS WHERE ANOMALOUS RUNOFF PATTERNS ARE KNOWN TO EXIST. ISOPLETHS SHOULD NOT BE USED TO PREDICT RUNOFF FOR THESE AREAS. NUMBER IN PARENTHESIS INDICATES RUNOFF IN INCHES. (?) INDICATES RUNOFF SIGNIFICANTLY LESS THAN ADJACENT AREAS, BUT EXACT FIGURES NOT AVAILABLE.
- PHYSIOGRAPHIC BOUNDARY
- STORAGE ESTIMATES IN THESE STREAM BASINS MUST BE MULTIPLIED BY 1.5

N

SCALE 1:750,000

0 5 10 15 20 MILES

0 5 10 15 KILOMETERS

LARGE STORAGE RESERVOIRS IMPRACTICAL IN THE SOUTHEASTERN LOWLANDS

IMPOUNDMENTS ARE NOT PERMITTED ON THE CURRENT, ELEVEN POINT AND JACKS FORK RIVERS UNDER PRESENT (1970) LAW